

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

MARCH 1, 1960

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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CONTENTS

Plantarama Pennsylvania Theme	7
By Fred H. Kilner	
New England Convention at Boston	9
By Vincent Vuoto	
Record Attendance in New Jersey	11
By Roy H. DeBoer	
Growers' Topics Subject of Oregon Short Course	12
By Charles H. Potter	
Audience Takes Part in Oregon Convention	13
By Charles H. Potter	
Philadelphus Popular for Spring White	14
By Donald Wyman	
Oppose Licensing Law at Kentucky Convention	16
By Howard Tilson	
Tennessee Group Elects at Nashville	17
By D. P. Henegar	
National Arborist Group Holds Chicago Meeting	18
By Noel Wysong	
Retailing Problems Stressed in Colorado	19
By M. William Stellmon	
Panels Featured at Institute for North Californians	20
By Richard B. Kilner	
Long Island Panelists Discuss Equipment and Lawns	36
By Daniel Dowd	
State University Hosts New Hampshire Growers	60
By Lawrence A. Dougherty	
Trenton Events Conclude New Jersey Winter Meet	66
By Roy H. DeBoer	
Ohio Nurserymen Present Lake County School	74
By Marie Brandstaetter	
Michigan Groups in Joint Meeting at Grand Rapids	84
By James Jones	
Plant Notes Here and There	90
By C. W. Wood	



Editorial	6	This Business of Ours	54
—Plant Records	6	—Deciduous Azaleas	54
—Plenty of Jobs Ahead	6	Mum Group Elects	58
—Books Up to Date	6	California Association of	
—Why Labor Is Scarce	6	Nurserymen	106
—Slide Libraries	6	—Peninsula Chapter	106
H. O. Perkins Honored	10	—Centinela Chapter	106
Arborist of the Year	18	—Central Chapter	106
Cover Illustration	22	—Redwood Empire Chapter	106
—Philadelphus Virginalis Bouquet		Oregon Notes	108
Blanc	22	New York Group Meets	142
Materials Service Elects at New		Carol Dean New Queen	142
York	24	Coming Events	143
Obituary	28	—Meeting Calendar	143
—William H. Norman	28	—Georgia Meeting Dates	143
—Frederick T. Burke	28	—Refresher Course	143
—Edward W. Higgins	28	—Southwest Tree Meet	143
—George T. Goodhue	30	—Michigan Garden Clinics	144
—Charles V. Edwards	30	—Eastern Flower Show	146
—Mary Louise Nieman	30	—Newark Rose Festival	146
—E. W. Luke	30	Rutgers Staff Addition	146
—Carl Franklin	30	Benton, Pa., Meeting	150
Michigan Landscape Association		McKee Fire Loss	160
Meets	34	Wolfe Nursery Expands	161
Michigan Merger	52		

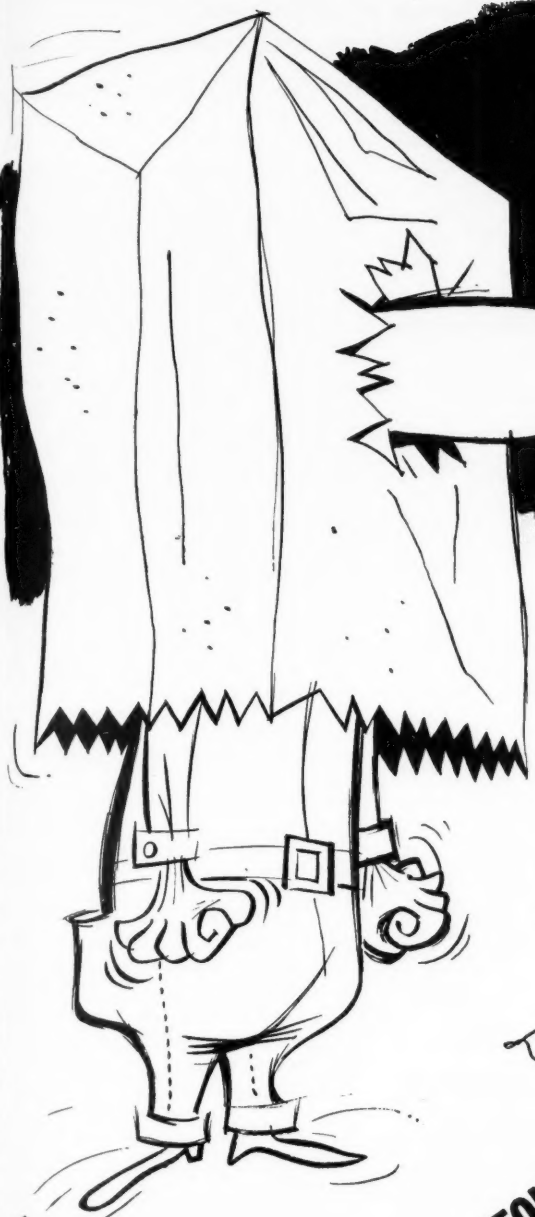
INDEX TO ADVERTISERS

Adair Co., Charles	158	Elmer Roses	108	Leavenworth Nurseries	85-86	Rhode Island Nurseries, Inc. ..	62
Advance Process Supply Co. ..	160	Evergreen Farm Nursery	89	Leeland Farms	102	Rickert Nurseries	44
Agricultural Rubber Products		Evergreen Nursery Co.	92	Lechman's Evergreen Nursery ..	64	Robinson Sales Agency, E. D. ..	62
Corp.	160			Leonard & Son, A. M.	161	Rogers' Berry Farm	101
Alanwold Nursery	72	F. & F. Nurseries	72	Lerio Corp.	149	Rogers Nursery, R. H.	69
Aldridge Nursery	95	Fafard, Inc., Conrad	140	Leuthardt, Henry	101	Rootsprod	135-155
Alert Trend Corp.	63	Fairview Evergreen Nurseries ..	68	Lifetime Markers	138	Rough Bros.	158
Alumalath	152	Farley Fences, Inc.	156	Lindig Mfg. Co.	150	Ryan Landscaping Equipment	
Amchem Products, Inc.	140	Feader Wholesale Nurseries ..	112	Lindley Nurseries, Inc.	102	Co.	147
American Landscape School ..	142	Flickingers' Nursery	54	Lin-Mar Designs	158	Saffer & Co., Inc., Al	143
Angelica Nurseries	65	Floc-Flo Corp.	160	Little Giant Pump Co.	153	Salver Nursery Co.	109
Anthony Lake Nursery, Inc. ..	104	Floral Gardens Nursery	79	Lord & Burnham Co.	148	Scarff's Nursery, Inc.	87
Ariens Co.	161	Flower City Nurseries	101	Lose Bros., Inc.	137	Schroth's Nursery	63
Armintrout's Evergreen		Ford Motor Co.	45	Lovett's Nursery, Inc.	40	Schumacher, F. W.	81
Nursery	84	Forest Nursery Co., Inc.	61	Lowgarten, Balser	48	Schutt Nurseries	52
Armstrong Nurseries	51	Forestry Associates	71	Maloney Bros. Nursery Co.	95	Seaman Bag Co.	160
Arp Nursery Co.	97	Forestview Evergreen		Martin Co., Inc., Joseph F.	81	Sequoia Nursery	112
Atkins Sons, L.	135	Nursery	150	Mathews Nursery	30	Shade's Nursery	69
Austrine Ascending Elm		Foster Nursery Co., Inc.	87	Maxwell, Bowden & Rice, Inc. ..	58	Shambarger Nursery, Carl ..	104
Associates, Inc.	80			McGee Nurseries, Inc.	88	Shamarello & Son Nursery ..	81
Bagatelle Nursery	40	Garden Shop, Inc.	134	McGill & Son, A.	108	Shank Farms	108
Bailey Nurseries, J. V.	84	Gardner's Nurseries, Inc.	64	McIninch Greenhouses	75	Sheerlund Forests	60
Ball, Inc., Geo. J.	144	Garuff's Nurseries	58	McKee's Nursery	93	Shenandoah Nurseries	163
Bartlett Mfg. Co.	144	Geiger Co., E. C.	57-150-153	Mead Nursery	78	Shepard Nurseries	44
Bean Division, John	59	Gelgy Agricultural Chemicals, ..	21	McNelly Nursery, A. Co.	82-83	Sherrwood Nursery Co.	92
Beardslee Nursery	80-	Gilmoro Plant & Bulb Co.	161	Menne-Pot, Inc.	31	Shore & Co., J.	150
84-86-88-92-93-95-98-101-102-105		Gilson Gardens	71-73-75-77	Mentor Rose Growers, Inc.	78	Siebertthal Co.	72
Bell Acres Nurseries	54	Gledhill Road Machinery Co.	131	Mist-O-Gation, Inc.	154	Sine Equipment Co.	138
Bennett's Nursery	64	Globe Nurseries	95	Mitch Nursery	107	Smith & Co., D. B.	182
Bentley's Hardy Plants	91	Goochland Nurseries, Inc.	97	Monarch Mfg. Works, Inc.	152	Smith's Forest Tree Nursery ..	77
Berryhill Nursery Co.	158	Grant's Nursery	96	Monroe Nurseries of Crossville, ..	34	Sneed Nursery Co.	97
Big BAS-KITS	156	Greco Mfg. Co., Howard Inc.	151	Ala., Inc.	34	Somerset Rose Nursery, Inc.	46
Big River Nursery	95-97-98-100	Gro-Quick Co.	150	Monrovia Nursery Co.	82-83	South Jersey Colonial	
Bird & Son, Inc.	47	Growers Exchange, Inc.	105	Montebello Rose Co., Inc.	71	Nurseries, Inc.	112
Blackwell Nurseries	104	Growers & Manufacturers		Moorestown Gardens, Inc.	52	Southside Nurseries, Inc.	94
Bloodgood Nurseries	64	Exchange	156	Moran, E. C.	97	Sowams Nursery	58
Boblink Nurseries	70	Growers Sign Service	127	Morning Star Nursery	101	Sprayers & Nozzles	162
Bolton Evergreen Nurseries ..	69	Gulf Stream Nursery, Inc.	97	Morris Nursery, Ltd., C. D.	93	Standard Thermometer, Inc.	155
Bork Nurseries	92	Gutbrod Co., A. H.	153	Morse Co., A. B.	149	Stauff Chemical Co.	37
Bosley Nursery	73-76-85-90			Moses Nurseries	50	Steele's Fanny Gardens, Inc.	81
Boulevard Nurseries	56	Haggerty's Landscape		Mount Arbor Nurseries	2	Stephens Nurseries	104
Boyd Nursery Co.	104	Nursery	84	Mount Hood Nursery	108	Sterling Bag & Burlap Co.	155
Braden Seed Co., Inc., K. J.	87	Half Moon Mfg. & Trading		Mount Vernon Nursery	112	Sterling Peat Co.	156
Brettrager Manufacturing	100	Co.	160	Muellermist Irrigation		Stirling's Nurseries	106
Brick Nursery, L. P.	88	Halnorn Bros.	161	Murphy's Sons Co., R. H.	92	Stumpy Supply Co.	154
Brookdale-Kingsway, Ltd.	93	Hansen Bros. Nurseries, Inc.	68	Musser Forests, Inc.	28	Summit Park Nursery	72
Brookfield Gardens	72	Hartman, Philip	139	Hawkesmith & Sons		Suncrest Evergreen Nurseries ..	42
Brower's Nurseries	40	Hartline Farm, H. B.	74	Nursery	98	Sunderland Pine Shop	158
Brown Deer Nurseries	88	Heart of Missouri Poultry		National Band & Tag Co.	136	Sunnyside Nursery	76
Bryant's Nurseries	86	Farm	157	National Rain Bird Sales & ..	149	Supreme Electric Products ..	152
Budding InRow Weeder Co.	150	Heasley's Nurseries	70	Engineering Corp.	113	Tankard Nurseries	95
Bulk's Nurseries	70	Henderson, Inc., Alec	139	Native American Holly		Tennessee Valley Nursery ..	74
Buntings' Nurseries, Inc.	62	Herb's Bros.	146	Farms	154	Teufel, Alfred	107
Cabot, Samuel	133	Hess Nurseries	46	Natorva Co.	184	Texas Nursery Co.	95
Canale's Forest Nursery	54-71	Hidden Valley Nursery	67	Norley Nursery, Inc.	102	Tinkle Printing Co.	155
Capitol Garden Farms	100	Hill Nursery Co., D.	164	Neosho Nurseries	80	Trim Tree Nursery	54
Carino Nurseries	65	Hillmeyer Nurseries	94	Neumann Bros.	79	Tumble Brook Rhododendron	
Carraig & Sons, John	112	Hill's Nursery	149	New Amsterdam Import Co.	159	Nursery	66
Caracallen Nursery Label Co.	158	Hillsborough Bulb Co.	105	New Jersey Farm Supply		Ullman Co.	144
Cartwright Nurseries	32-33	Hobbs & Sons, Inc., C. M.	85	Coop. Assn.	160	Union Products, Inc.	144
Casadaban's Nurseries	102	Holly Acres	56	Newport Nursery Co.	162		
Cassinelli's Glendale		Homestead Nursery	111	New York Bag & Burlap		Vandenberg Bulb Co.	98
Nurseries	89	Howard-Hickory Co.	96	Co.	145	Vanderbrook Nurseries, Inc.	62
Cellusuede Products, Inc.	138	Howards of Hemet	5	Nollau Nurseries	78	Vanderbolen Export Co.	151
Champion Nurseries	86	Hren Nurseries	62	Norley Nurseries	44	Vander Pol Nurseries	84
Champion Sprayer Co.	141	Humbreys Landscape		Nursery Equipment Co., Inc.	148	Van Heiningen Nurseries ..	67
Chapman's Nursery	56	Service	103	Nursery Sales, Inc.	48	Van Veen Nursery	109
Chase Co., Benjamin	100	Igenfritz Nurseries, Inc.	76	Old Orchard Gardens	135	Vaughan's Nursery	73
Chase Nursery Co., Inc.	161	Imperial Nurseries	65	Onarza Nursery Co.	90	Vaughan's Seed Co.	23
Chick-a-Dee Gardens	109	Imperial Nurseries of Long		Ozanark Bulb Farms	105	Verhagen Nursery Co.	100
Chicopee Mfg. Corp.	159	Island	52	Owen & Son, Inc., T. G.	32-39	Verkaede's Nurseries	64
Chocola Nurseries	96	Imperial Tag & Printing Co.	161	Ozark Nursery Co.	102	Vermeulen & Son, Inc., John ..	52
Clarke & Co., W. B.	107	Iron Mountain Evergreen Co.	91			Vosters Nurseries &	
Classified Ads	114-130	Jackson & Perkins Co.	65	Pacific Coast Nursery	110	Greenhouses	72
Clinton Nurseries	48	Jewell Nurseries, Inc.	87	Pallack Bros. Nurseries, ..	68-69	W-W Grinder Corp.	146
Cloverest Farm	24	Jiffy Bailing Co., Inc.	147	Palmer & Son, J. R.	76	Wade & Gatten Nurseries	84
Cole, R. M.	40	Kofford Co., Reed S.	112	Patio Wood Products	174	Waincoat Windbreak Nursery ..	132-133
Cole Nursery Co.	26-27	Johnson's Nursery	96	Peacock Nurseries	83	Want Ads	132-133
Columbia Nursery & Garden		Johnston, William A.	152	Pearce Seed Co.	100	Warren & Son Nursery	100
Supply Co.	49	Jones Tree Farm	71	Peaskill Nurseries	70	Waynesboro Nurseries	91
Commercial Nursery	98	Kallay Bros. Co.	92	Pelrite Institute, Inc.	41	Wayside Gardens	91
Conard-Pyle Co.	96	Keeling Nursery, Forrest	86	Peters Co., Robert B.	157	Weedlin Nursery	110
Concord Woodworking Co.	155	Keiding Paper Products	161	Peterson & Dering	23	Weeks Wholesale Rose	
Concord Nursery, Ivan R.	95	Kel Engineering & Equipment		Phytotektor	99	Grower	107
Condon's Wholesale Nursery ..	50	Co.	154	Physon, Inc., A. N.	44	Wells Nursery, Inc., James ..	81
Coral Way Products Co.	136	Kelly Bros. Nurseries, Inc.	91	Piggott Nursery Co.	103	Western Maine Forest Nursery	
Corliss Bros., Inc.	87	Kenyons Nursery	102	Pinch Peak Nurseries	42	Co.	50
Cottage Gardens	79	King Wholesale Nursery	67	Pine Grove Nursery	12-70	Westgate Co., W. A.	136
Courier Nursery Printer	134	Kingwood Nurseries	71-73-75-77-79-88-92-105	Plant Marvel Laboratories	142	Whalley, J. B.	111
Cumberland Plateau Nursery ..	100	Klyn, Inc., Gerard K.	86	Plumfield Nurseries, Inc.	81-89	Whitten's Nurseries, R. C.	83
Cumberland Valley Nurseries ..	101	Kofford Co., Reed S.	112	Portland Wholesale Nursery		Wicht Nurseries, Inc.	100
Cumminham Gardens, Inc.	98	Kraus Nurseries, V.	91	Co.	111	Williams, Isaac Langley	56
Curtis Nurseries	62	Krieger's Wholesale Nursery ..	93	Possum Hollow Nurseries	58	Williams & Harvey Nurseries ..	138
		LaBar's Rhododendron		Powell Valley Nursery	108	Willis Reynolds Corp.	142
Danezger's Hi-Way Nursery ..	40	Nursery	48	Pratt Co., B. G.	151	Willowbend Nursery	90
Darling Co., J. L.	139	Lake County Nurserymen's		Premier Peat Moss Corp.	131	Willow Evergreen Nursery ..	44
Dayton Fruit Tree Label Co.	152	Assn.	86	Premier Southern Ticket Co.	152	Wilson Nurseries, C. E.	98
Dayton Nursery & Garden		Lake Sammamish Evergreen		Preston Peanut Co.	143	Wilson's Nursery	75
Sales	153	Nursery	112	Relevance Fertilizer Co.	141	Winn Nursery	96
Debra Industries	139	Lansing Specialties Mfg. Co.	149	Rhoades & Son, Bertha E.	78	Wirth, Hermann A.	153
Deerfield Nurseries	70					Wright, C. D.	81
Deeter & Sons Nursery	84					York Modern Corp.	55
De Groot Bulb Co.	81					Zelenka Evergreen Nursery, ..	80
Del-Mar-Va Nurseries	40					John G.	80
Descanno Nurseries	107					Zonolite Co.	113
Diamond State Nurseries	70						
Dible Nursery, Sam	56-67						
Dirkmaat Azalea Farm	50						
Dobbins Division	146						
Dott & Doerner, Inc.	108						
Dukan Nurseries, Inc.	74-80-85						
Eagle Creek Nursery Co.	92						
Egyptian Nursery & Landscape							
Co.	78						

Forms for the April 1 issue will close Friday, March 11.

Forms for the April 15 issue will close Friday, March 25. Mail copy to arrive at Chicago by these dates — no later.

Inc. 62
E. D. 62
101
69
136-155
158
ipment
147
148
109
87
58
81
53
160
101
112
69
arl 104
ursery. 88
102
60
161
46
92
109
160
78
138
162
156
ursery. 77
97
Inc. 46
71
94
58
162
Inc. 155
37
Inc. 81
104
Co. 155
156
106
154
72
series. 42
158
76
cts 152
95
ry 104
76
107
96
156
64
94
ndron 66
149
144
98
Inc. 62
151
64
8 67
109
78
29
100
64
John. 62
72
146
es. 84
ursery 77
132-138
100
91
91
110
107
mes. 48
ursery 50
136
111
140
C. 88
100
56
series. 138
22
142
ery 90
44
98
75
96
153
81
55
ery, 80
113



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Editorial

PLANT RECORDS

Many a nurseryman has tried out a few plants of a new shrub or tree, or one recommended from one source or another, only to discover he is unable to be certain of its identity by the time he finds a real demand for it. This is the case especially when such trials are made casually in the course of a general nursery business and special records are not kept. Plant markers have a way of becoming misplaced, and labels are sometimes lost. Not always are office memoranda kept with the thoroughness that one later wishes. Perhaps interest has lapsed in one or another trial while others receive attention, and when real enthusiasm or demand for some attractive mature specimen develops, the grower has forgotten the name and possibly the source.

Every nurseryman knows of such instances, and many recall some of them with keen regret. Those who learn by experience establish records which will be available when wanted, even if the time be some years hence.

Of prime help is a book or file in which a record of every purchase of a new or recommended variety or species for trial is kept, or note is made of any unusual transaction or trade. Then one's individual memory may come to the rescue in an emergency. Since markers and labels are so often found undependable, a book indicating the location of such plantings in the nursery is a decided help. Even if one's fields are not laid out by numbered and lettered blocks and rows, a note regarding the location of a few plants obviously set out for trial and not to be dug the following season will be useful.

Each nurseryman should devise a system according to his own growing area, plantings and experience, for few situations are precisely the same.

The Mirror of the Trade

As the gardening public increases in size and its interest in novelties and superior plants develops, trials will doubtless be more numerous. Hence the necessity for accurate, adequate and permanent records of plantings is the more imperative.

PLENTY OF JOBS AHEAD

Last year a decline in home building was feared on account of the high rate of mortgage money and business uncertainty because of the steel strike. But when full figures were in, the total of private housing starts in 1959 was reported as 1,341,500, the highest for any year except 1950. Total housing starts, embracing both private and public, in 1959 totaled 1,376,900, also but little behind the 1950 record.

This figure should reinvigorate those landscape salesmen who were gloomy over the outlook for home planting jobs this year. As a matter of fact, new houses should provide a market for large quantities of varied nursery stock for several years to come.

BOOKS UP TO DATE

Years ago, Dr. Liberty Hyde Bailey commented that many statements in books regarding plants and gardening were taken from older books, published either here or abroad, and passed on to a new generation without test of their authenticity. Reason for his comment is apparent to anyone who has perused numerous horticultural books published earlier in this century and before, particularly many of the dictionary or encyclopedia type.

Less obvious to readers were statements passed on from one writer to another as facts, which in some instances became gardening traditions until their lack of real basis was demonstrated by trial or discovery in research. Statements about some lesser known plants became particularly misleading in their day and, in some instances, up to the present.

Fortunately for gardeners and commercial horticulturists, practically all of the books published in recent years have been based on research, direct observation, trial or experience, the authors acknowledging their limitations in presenting the information, so that readers are not misled. A few writers, it must be acknowledged, are still rather careless as to embodying information

which they have gleaned from other books, rather than from their own experience; these may not seem misleading or important to the authors, but may prove so to inexperienced and little-informed gardeners who make use of the books' information.

While it is true that some books of an earlier generation are still valuable for reference and guidance, not having been superseded by later works of similar character, it is necessary that the reader who wishes to be guided by these books exercise care and common sense in applying the information supplied by them. Most important of all, writers in newspapers, magazines and other media should be cautious in appropriating material from books of an earlier vintage. On most subjects, up-to-date books are available that are authoritative enough to make unnecessary the perpetuation of half-truths and inaccurate statements in print anywhere.

WHY LABOR IS SCARCE

Good reason why trained farm labor for work in nursery fields is scarce appears in government figures indicating that farmers, both operators and workers, now provide only 7.5 per cent of all employment in this country, compared with 18.6 per cent in 1929. As factory work has taken an increasing proportion of this country's population, fewer boys, even those born in rural areas, remain to work on the farms.

SLIDE LIBRARIES

Libraries of Kodachrome slides for members to use in presenting talks and lectures or show to clubs or customers are being provided their members by an increasing number of organizations. These are a service both to the professional member provided with them and to the gardening public in an educational way.

Among those now making such slide libraries available is the National Shade Tree Conference. Five sets of 50 slides each are now available to members, on general arboriculture, tree species, insects, injuries and diseases. The rental charged is \$3 for each week for each set while retained by a member. They are available through Spencer H. Davis, Jr., of Rutgers University, who is chairman of the conference slide committee.

Plantarama Pennsylvania Theme

Varied Talks on Plants and Awards Highlight Philadelphia Convention

By Fred H. Kilner

Emphasis was placed on plants in the talks delivered at the 56th annual convention of the Pennsylvania Nurserymen's Association held February 10 to 12 at the Warwick hotel, Philadelphia. A registration of over 200 persons heard Dr. Donald Wyman, horticulturist, the Arnold Arboretum, Jamaica Plain, Mass., talk and show slides in color on the "Selection of Plants." Talking on "Propagation of Plants" was William Flemer III, Princeton Nurseries, Princeton, N. J. Discussing the "Care of Plants" was Peter B. Cascio, the Peter Cascio Nursery, West Hartford, Conn., and Dr. Carlton B. Lees, director, Pennsylvania Horticultural Society, Philadelphia, talked on "Use of Plants." Completing the discussion on plants were talks on "History of Plant Exploration," by Dr. John M. Fogg, Jr., director, Morris Arboretum, Philadelphia, and "Plant Reactors," by Dr. Seymour Shapiro, associate botanist, Brookhaven National Laboratory, Upton, L. I., N. Y. A report of these talks will appear in a later issue of the American Nurseryman.

Awards Presented

Highlighting the annual banquet, February 11, was the presentation of the Nurseryman of the Year award. Recipient was Wilbur I. Nisley, Walter, Nisley & Walter, Inc., Harrisburg, current secretary-treasurer of the P. N. A. and a past president of the association. Awards for school landscaping were also presented at the banquet with Berwick high school, Berwick, being honored, and Eshleman's Nursery, Bloomsburg, receiving an award for doing the landscaping. The firm of Walter, Nisley & Walter, Inc., was honored for doing the landscaping of Steelton Highpire high school and Eisenhower elementary school. The two schools also received a framed citation. Singled out for an award was the Future Farmers of America chapter of the Cumberland Valley high school for its landscape display staged at the Pennsylvania farm show and reproduced in the hotel lobby during the convention.

Rounding out the convention activities were the various committee reports, business meetings, talks by officials of the American Association of Nurserymen and election of offi-

cers. An enlarged trade show, with 29 exhibitors, displayed a wide variety of plants and supplies. Adding interest and helping to swell attendance at the meetings was an endless list of door prizes donated by the exhibitors and other suppliers to the trade.

Election

The election of officers and executive committee members produced the following officeholders: President, Herbert Hoechstetter, Hoechstetter Nursery, Inc., Verona; first vice-president, Walter W. Pitzonka, Jr., Pitzonka's Pansy Farm & Nursery, Bristol, and second vice-president, Fred Mummert, Colonial Nursery, Inc., Harrisburg. Mr. Nisley remains as secretary-treasurer, and the retiring president, Raymond J. Hively, Shiloh Nurseries, Inc., York, automatically becomes member at large of the executive committee.

Re-elected to the executive committee for three years was C. J. Albrecht, Jr., Albrecht's Nurseries, Narberth, eastern region. John F. Styer, Jr., Styer's Nurseries, Concordville, has one more year to serve from this region, while Thomas M. Yerkes, Conard-Pyle Co., West Grove, has two more years.

Re-elected from the central region for a 3-year term was John Seyler, Farr Nursery, Womelsdorf. Harry

Biesecker, Lincoln Way Nursery, Cashtown, will serve out the remaining year for Mr. Mummert, and Kenneth G. Stein, Enterprise Nurseries, Wrightsville, has two years remaining as committee member from this region.

Elected for a 3-year term from the western region was Angelo DeMare, Jr., Oakland Landscape & Nursery Co., Bethel Park. Dominic Palombo, Jr., South Hills Nurseries, Pittsburgh, has one more year to serve for this region, while W. A. Morten, Jr., Coraopolis, has two additional years to serve.

Welcoming the nurserymen to the convention was a hospitality night, February 10. A fast-moving and entertaining series of acts staged by members of a local dance band was enjoyed by all.

Committee Reports

The convention was officially called to order the next morning by President Hively, who called up Stanley Leighton, Whitmarsh Nursery, Plymouth Meeting, to deliver his report as chairman of the Pennsylvania horticultural council and state university committee. He related that there is a need for a new controlled-atmosphere storage building at Pennsylvania State University and the council is putting its efforts behind this project. During



Newly elected officers and executive committee members of the Pennsylvania Nurserymen's Association: Left to right, seated, Fred Mummert, second vice-president; Herbert Hoechstetter, president; Walter Pitzonka, first vice-president, and Wilbur I. Nisley, secretary-treasurer; standing, Angelo De Mare, Jr.; Jay Albrecht, and John Seyler, all executive committee members. Harry Biesecker, executive committee member, was not present when the picture was taken.

the past year the council gave a testimonial luncheon for the Hon. Hiram G. Andrews, member of the state legislature, who assisted in raising the \$500,000 appropriation for new horticultural facilities at the state university. Mr. Leighton also announced that the application of the Pennsylvania Christmas Tree Growers' Association for membership in the council was rejected.

Reporting as editor of the newsletter, Louis E. Wissenbach, Squirrel Hill Nursery, Pittsburgh, stated that six editions were planned again for the new year.

Next heard was the highway and public works committee report, delivered by its chairman, John M. Eisler, Eisler Nurseries, Butler. This being a relatively new committee, Mr. Eisler explained it was appointed to check on the landscape work being done for highways and public buildings. While work performed has improved, the bidding on these jobs is still low and going to inexperienced firms which do not make much money or may lose money on the jobs, he said.

Giving the membership committee report was its chairman, Fred Mummert, who stated that there are 262 active, 81 associate and eight honorary members. During the year, 26 members were dropped and 21 new members added.

Wednesday afternoon, the convention goes attended a luncheon at which W. H. Noble, Jr., director of Fairmount park commission, Philadelphia, gave a welcoming address. He called attention to Bartram's Garden, which is under the jurisdic-

tion of Fairmount park. He said it is one of three gardens in the world in existence for a long period of time, this being over 300 years old.

Fairmount park has a Japanese exhibition house and garden, said Mr. Noble, which attracts 18,000 visitors a year. On the site of the old horticultural hall an outdoor garden is being erected. Mr. Noble called attention to the Pennsylvania Horticultural Society's azalea garden as another highlight of the city.

Landscape Award

Taking the spotlight next was Valteau C. Curtis, Curtis Nurseries, Inc., Callicoon, N. Y., president of the A. A. N., who presented an industrial landscape award to the Philadelphia Electric Co., Philadelphia; the architectural firm performing the job, Wheelwright, Stevenson & Langran, Philadelphia, and the landscape contractor, Henkels & McCoy, Inc., Philadelphia.

Opening the afternoon program, February 11, Raymond Hively gave his president's address. He recalled some of the historical highlights of the P. N. A. He said that the association had gone on record as opposing billboards on federal interstate highways, but the bill was defeated in the Senate. The association, he related, is trying to get the date of Arbor day settled. It is now April 9, except when it falls on a weekend or holiday, and is closely connected with soil conservation. The P. N. A. is attempting to have it set on the third Friday in April. President Hively called attention to other studies being made by P. N. A. com-

mittees and stated the conviction that "If our industry is to survive and compete with others for the consumers' dollar during the fabulous 60's, then we must alter our present methods, whether we want to or not."

Industry Promotion Needed

In his report as director from region I of the A. A. N., Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, believed we should ask ourselves if we are satisfied with what our industry has done in the past decade. The nursery dollar is a discretionary one, he said, and nurserymen are not getting their share of it. The industry is doing a good job of producing, but not of selling, being away behind other industries. The nursery industry, he emphasized, has not come far enough, fast enough.

Mr. Hutton said he would like to see the A. A. N. market development and publicity program expanded. He believes each member should insist on an expanded program, for the industry has no choice but to proceed in this direction.

Annual Banquet

Thursday evening, February 11, the convention goes attended a cocktail party sponsored by Buntings' Nurseries, Inc., Selbyville, Del., and Perkins de Wilde Nurseries, Shiloh, N. J., after which the annual banquet was held. President Hively recognized B. F. Barr, B. F. Barr & Sons Nurseries, Lancaster, 88 years old and in attendance at the convention with his wife. Called upon to present the Nurseryman of the Year award was John Seyler, in the absence of his father, Harold Seyler, last year's winner, who was at the bedside of his wife. As previously reported, Mr. Nisley was the winner for 1959. Following, the various school landscaping awards were presented, as previously reported. The rest of the evening was devoted to a series of variety acts, which entertained the group.

The next morning, February 12, started off with a business meeting, at which A. F. W. Vick, Jr., Vick's Wildgardens, Inc., Gladwyne, reported as chairman of the workman's compensation insurance committee. At a meeting with the rating bureau on January 15, a change of the present rate was announced from \$1.05 per \$100 to \$1.10 per \$100, effective February 1, to policies effective as of that date. An increase of 6.2 per cent as of February 1 was to be made on unexpired portions of policies. This increase was due to the ad-

[Continued on page 147]



Winner of the Pennsylvania Nurseryman of the Year award at the state's annual convention in Philadelphia was Wilbur I. Nisley, left, being presented an engraved plaque by John Seyler, son of Harold Seyler, last year's winner.



New officers elected at the New England Nurserymen's Association meeting at the Hotel Kenmore, Boston, Mass.: Left to right, G. Harold Thurlow, vice-president; Harry Eastman, retiring president; William Vittner, president; E. W. Whitham, secretary, and Alfred L. Angel, treasurer.

New England Convention at Boston

Guarantees and Public Relations Topics of Talks and Committee Reports

By Vincent Vuoto

The importance of trying to solve the complex problem of guarantees, which has long plagued the various segments of the industry and which was aggravated to a considerable extent by last winter's extremely adverse weather, was the theme that dominated the 49th annual convention of the New England Nurserymen's Association, which attracted approximately 300 nurserymen and allied trade members to the Hotel Kenmore, Boston, Mass., February 2 to 4.

The need for an early solution to the problem, and one that would be satisfactory to all nurserymen in the area, was stressed time and again not only at the business meetings but also as a highlight of the education program the afternoon of February 3, with a spirited panel discussion on the topic "Uniform Guarantees for Northeastern Nurserymen."

New Officers

At the annual election of officers held the morning of February 4, William W. Vittner, Vittner's Gardens, Manchester, Conn., was elected president on an uncontested ballot. Other newly elected officers include G. Harold Thurlow, Cherry Hill Nurseries, West Newbury, Mass., vice-president; Erwin Whitham, E. W. Whitham Sales Agency, Manchester, Conn., secretary, and Alfred Angel, C. Hoogendoorn, Nurseryman, Newport, R. I., treasurer.

Elected to the executive committee were Anthony Williams, Forest Hills Nurseries, Inc., Cranston, R. I.;

Hendrik Verkade, Jr., Verkade's Nurseries, New London, Conn., and immediate Past President Harry Eastman, Western Maine Forest Nursery Co., Fryeburg, Me.

Chosen as delegates to the American Association of Nurserymen's annual convention were William Vittner; Erwin Whitham, and Charles Godin, Adams Nursery, Inc., Westfield, Mass. Alternates are Seth Kelsey, Jr., Kelsey-Highlands Nursery, East Boxford, Mass.; V. James Vanicek, Jr., Rhode Island Nurseries, Inc., Newport, R. I., and E. John Brouwer, Brouwer's Nurseries, New London, Conn.

The convention was formally opened the afternoon of February 2, when President Eastman presented his annual address to the membership. In his opening remarks, President Eastman pointed out the extremely sound financial position of the association and briefly related the gains and accomplishments made during the past year, touching on the sponsorship of a clam bar at the annual American Association of Nurserymen convention and the summer meeting of the N. E. N. A., which was called the best attended such gathering ever sponsored by the association.

More Publicity Needed

It is President Eastman's opinion that the association needs more and better public relations and publicity to keep the general public informed on the use and care of nursery products, with one of the prime aims be-

ing to convince the public that plants and proper landscaping are a necessary part of gracious and comfortable living.

Before these aims can be accomplished, he added, the individual nurseryman must offer the public quality stock priced realistically. Quality stock will sell itself, he emphasized, and nurserymen simply need to create in their customers the desire for the available plants and plantings.

He suggested that each nurseryman spend some time in reviewing and analyzing his present managerial setup and touched briefly on the importance of advertising and the necessity of keeping advertising honest.

Most nurserymen are more than anxious for new customers, he cautioned, but many have a tendency to overlook the regular customers whom they already have. Getting a customer is costly, and it is far easier and cheaper to keep a customer than it is to gain a new one.

In reviewing the financial soundness of the association, which he termed the best yet, President Eastman suggested the possibility of sponsoring a fellowship or scholarship at one of the New England state colleges. Preliminary investigation on the project has already been done, he added, and asked that the membership seriously consider such a project.

There followed the secretary's report, given by Erwin Whitham, and

the treasurer's report from Alfred Angel, the latter showing total assets of \$15,798.65.

A. A. N. Report

S. B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa., director of region I, A. A. N., presented a report from that region.

Like most industries, he noted, the nursery industry can be divided into two broad classifications: Production and selling. Production, in his opinion, has been carried out fairly satisfactorily, and, although certain problems exist, they are constantly being reduced or eliminated, with large gains made in the past decade.

Merchandising, including selling and promotional activities, however, needs immediate improvement to insure nurserymen of their fair share of the consumer dollar in the coming decade, with current practices falling far behind the advances made by other industries. Progress in the past decade has been made in merchandising and selling techniques, he added, but the industry, by and large, has not come far enough nor fast enough.

Mr. Hutton asserted that the current publicity and market development program of the A. A. N. is the best buy that any nurseryman can get for money spent on advertising. He urged his listeners to support the A. A. N. and insist on an expanded national marketing program as a means of benefiting and increasing over-all industry profits.

V. James Vanicek, in reporting for the transportation committee, reviewed the recent parcel-post increases and the effectiveness of the A. A. N. office in delaying them. He also detailed a pending bill in the legislative committee to increase the limit on the size of parcel-post packages to 100 inches and the weight for certain exceptions up to 70 pounds.

Membership rolls show little change over last year's total, according to membership committee chairman Mr. Thurlow. At present, the association's membership lists 194 firm members and 47 associate members, for a total membership of 241.

Publicity Activities

Richard Dennis, the Family Tree, West Roxbury, Mass., reported as chairman of the publicity committee. The purpose of the committee's campaign during the past year, he explained, was to promote the name and reputation of the N. E. N. A., and this was attempted by circulating news releases on garden subjects.

Thirteen releases were sent to 15

newspapers throughout the year, with the committee double checking each paper to find out whether or not the releases had been used. Coverage remained fairly high, and editors, for the most part, were enthusiastic at the releases, although the N. E. N. A. was not properly credited in most cases. Mr. Dennis recommended that more members prepare releases for local newspapers and cooperate by submitting newsworthy items of a noncommercial nature to the publicity committee.

Quoting from the association's bylaws, especially the line "to serve in general the best interests of the nurserymen and their customers in this territory," Seth Kelsey, chairman of the trade practices and ethics committee, stated that the clearly defined objectives in the bylaws call

for positive action on the part of the association toward establishing some sort of uniform guarantee to which all members can subscribe.

The extremely adverse winter weather of a year ago created many problems, and the response of the membership to customer losses was anything but uniform. It would seem logical, Mr. Kelsey pointed out, for the customer to expect the same treatment from all members.

He cited the following as alternative policies for the association: (1) No guarantee except to truthness to name and condition at time of sale; (2) a complete guarantee assuring replacement at no cost of all plants that do not survive a certain stated period, or (3) a limited guarantee, under which a customer who cares for his plants and pays his bills on time is fully protected for a reasonable period, under safeguards that protect the nurseryman against unjust and unwarranted claims.

The committee, Mr. Kelsey explained, was in favor of the third alternative as the most logical one. With such a uniform minimum guarantee, he added, losses should be small, the fair customer would be protected and members of the association would gain a reputation for fair dealing.

Past Presidents Honored

An innovation at this year's convention was a banquet held the evening of February 2, with special citations presented to past presidents of the group by President Eastman. Recipients of these citations who were present at the banquet were James Tufts, Jr.; Joel Barnes; Cornelius Van Tol; Seth Kelsey; Louis Vanderbrook; Edmund V. Mezitt; Lloyd Hathaway; Richard M. Wyman, Jr.; Willard M. Bond; John C. Brownell; Charles Godin; Robert Kempenaar, and Harold D. Stevenson.

Past presidents also awarded certificates, but who were absent from the banquet, included Fred Baker, Walton Wyman, W. W. McCartney, Richard Wyman, Peter J. Cascio, Chester Hogan and Dick Van Heinegen. P. V. Van Baarda and Donald D. Wyman were awarded certificates posthumously.

A social hour hosted by the Rhode Island Nurseries, Inc., Newport, R. I., preceded the banquet. Mal Robbins, local entertainer, performed at the conclusion of the dinner.

The convention was highlighted by education day, held February 3, which featured an address by E. D.

[Continued on page 56]

H. O. PERKINS HONORED



H. O. Perkins (left), who retired January 31 from the faculty of the University of Connecticut, Storrs, is shown above as he received a check presented by the Connecticut Nurserymen's Association in recognition of his many years of teaching and research in the field of landscape design. The presentation was made at the recent Connecticut short course by the C. N. A. president, Bruce Vanderbrook (right), Vanderbrook Nurseries, Manchester.

Professor Perkins joined the faculty of the college of agriculture at the university as an instructor in 1932, having previously been associated with landscape firms in California and Minnesota. The editor of the Connecticut Arborist magazine and the author of a number of publications on landscaping, he frequently served as counselor to city officials in the planning of street tree plantings. He intends to devote his time to writing a book on the history of landscape architecture and another on the selection and planting of trees and shrubs.

Mr. Perkins is a trustee of the American Society of Landscape Architects, chairman of publications of the Connecticut shade tree committee and a member of the National Shade Tree Conference and the American Association of Botanical Gardens and Arboretums.



Newly elected officers of the New Jersey Association of Nurserymen, shown at the group's recent Asbury Park meeting with Sidney B. Hutton (extreme right), director, A. A. N. region I: Left to right, Dr. William E. Snyder, secretary; Hans Hess, first vice-president; Peter Vermeulen, president; William Flemer III, retiring president and A. A. N. delegate; August Kindsgrab, treasurer; Edward Wyckoff, second vice-president, and Mr. Hutton.

Record Attendance in New Jersey

Increasing Off-Season Sales, Guarantees and Container Growing Discussed

By Roy H. DeBoer

After holding its annual winter meeting at Atlantic City for many years, the New Jersey Association of Nurserymen changed the scene and convened at the Hotel Berkeley-Carteret, Asbury Park, N. J., on Thursday, January 21. The more centralized location in the state, plus good weather, brought out the largest group in recent years. A well-planned program for the ladies resulted in the attendance of many of the wives.

New Officers

The officers for the new year, elected at the concluding business session of the meeting, are as follows: President, Peter Vermeulen, John Vermeulen & Son, Inc., Neshanic Station; first vice-president, Hans Hess, Hess' Nurseries, Wayne; second vice-president, Edward Wyckoff, Red Spade Nursery, Morristown; August Kindsgrab, St. Cloud Nurseries, West Orange, and assistant treasurer, Charles Ur, Maple Grove Nurseries, Montville.

The executive committee is composed of Pat Howe, Howe Nurseries, Pennington; Lester Field, Lovett's Nursery, Little Silver, and Robert Weber. William Flemer III was chosen as American Association of Nurserymen delegate; Louis Schubert, Somerset Rose Nursery, Inc., New Brunswick, was named trustee, and Peter Vermeulen; Klaas de Wilde, Perkins-deWilde Nurseries, Inc., Shiloh; Russell Bettes, and

George Runge, Delaware Valley Nursery, Elizabeth, were appointed to the New Jersey ornamental horticulture foundation.

The program began as President William Flemer III introduced Fred Fisher, Burwell Nurseries Co., Columbus, O., who spoke on "Increasing Off-season Sales in the Garden Market." Mr. Fisher noted that there are two major slack periods, the July-August summer period and the November-February winter period.

During the January-February pe-

riod at Burwell Nurseries, sales are kept alive with a wide selection of bird-feeding devices ranging in price from \$1.50 to \$39. Bird seed has also proved to be a popular item. Much time and effort are devoted to the Columbus garden show, which is a nursery show rather than the usual flower show. Tickets for this popular event are sold at the nursery.

Mr. Fisher pointed out that this is the time of year he visits the trade shows to get ideas and information on items that he knows his competi-

[Continued on page 94]



"Plant America" awards were presented at the New Jersey Association of Nurserymen meeting by Sidney B. Hutton (left), director, A. A. N. region I, to Raymond L. Steen, (center) vice-president, Broad Street National bank, Trenton, and to W. Pat Howe III, (right) Howe Nurseries, Pennington.

Growers' Topics Subject Of Oregon Short Course

**Talks Heard on Plant Growth, Soil Fumigation,
Automation, Turf Disease and Holly Problems**

By Charles H. Potter

On hand for the annual Oregon short course, February 2 and 3, at Corvallis, Ore., were nurserymen, landscape gardeners, holly orchardists, bulb growers and florists. Two general sessions were held, one each morning, attended by all groups represented. In addition there were special meetings for each group during the afternoon. All sessions were held at Oregon State College.

Dr. S. B. Apple, head, department of horticulture, Oregon State College, was chairman for the first general session. Welcoming the entire group to the campus was Milosh Popovich, dean of administration. It was learned that 17,611 persons attended a short course at Oregon State College during 1959, or an average of 300 persons per day. The groups require 1,200 meeting room days, or an average of six meeting rooms per day.

An interesting speaker for nurserymen in particular was Brian O. Mulligan, director, University of Washington Arboretum, Seattle, Wash. He defined an arboretum as an outdoor museum of labeled, woody, living plants, true to name, arranged aesthetically for the convenience of study, and a source of

an educational program that enables users of the arboretum to derive the maximum benefit. This definition was credited to C. E. Godshalk, of the Morton Arboretum, Lisle, Ill.

Arboretum Functions Told

The University of Washington Arboretum contains 260 acres, of which 180 acres are cultivated. The arboretum now contains 600 different kinds of trees, of which about 130 are coniferous species, and approximately 1,900 kinds of shrubs. The area has been developed to the best advantage for display purposes and to maintain the plants in good condition. Varied topography, aspects and soil conditions help in suitably locating plants according to their needs.

Since 1945, he said, more than 500 new or little-known plants have been procured or grown from seeds for testing purposes from many sources, both domestic and foreign. They include azaleas, cherries, crab apples, hollies, junipers, maples, magnolias, mountain ash, pines, spruce, etc.

He told of the many inquiries received at the arboretum. In 1959

there were nearly 1,500 telephone calls alone, he said. Alders, maples and rhododendrons are hybridized at the arboretum, and new types of rhododendrons, native dogwoods and magnolias are developed by selection.

He then told about the educational program, which was begun in 1958 with the help of the arboretum foundation. At present it has two main aims—to pass on horticultural information through various classes and demonstrations and to train leaders of youth groups and school teachers in the use of the arboretum and its facilities.

He said that in 1957-59 the biennial budget totaled \$159,587, of which 87 per cent went to salaries and wages, 13 per cent to all other costs of operation. Seven men are employed full time in the arboretum, along with other part-time employees. There are four men working full time in the greenhouses and three in the office, including the director.

Many group tours are conducted each year, and many lectures are given. The arboretum possesses over 2,000 colored slides which are used with the talks. It also has a small library of about 650 titles.

Some of the principal collections are (1) trees—birch, spruce, alder, holly, maple, oak, pine and mountain ash; firs and cherries are also well represented; (2) shrubs—azalea and rhododendron, camellia, cotoneaster, honeysuckle, magnolia, manzanita, mock orange, ribes and viburnum; fair collections also exist of ceanothus, cistus, euonymus, hypericum and dracopis.

In closing, he remarked that new or unusual plants considered prominent.

[Concluded on page 162]



Among the speakers at the Oregon short course at Corvallis were (left to right) S. B. Apple, Jr.; Brian O. Mulligan; Milosh Popovich; Frank P. McWhorter, and Charles J. Gould.

Audience Takes Part In Oregon Convention

By Charles H. Potter

The Oregon Association of Nurserymen held one of its most successful conventions January 28 and 29 at the Eugene hotel, Eugene, Ore. About 200 persons attended, and the fast-moving convention held something of interest for everyone. Spearheading the arrangements for the convention was the Emerald Empire chapter of the O. A. N., led by Reed Vollstedt, Reed's Garden Center, Eugene, vice-president of the state association and convention chairman.

Many fine speakers were on the program, including A. A. N. President Valleau Curtis, Callicoon, N. Y. In addition, educational features, such as the "Hard Knocks Kollege" and the "Wishing Well," drew large audiences. Speakers covered a wide range of subjects, such as "Is There an Ice Age Coming?", "Report of the A. A. N.," and "Who Is Your Competitor?" There was considerable audience participation in the programs, which added much to the interest. A clever gimmick was used to assure better attendance at all meetings. At the start of each session, during the first 10 minutes only, door prize tickets were given to each one entering the room. Then, at the close of each session a drawing was held for a valuable prize. The result was early arrival at all meetings and attendance until the sessions were over.

New Officers

The three principal officers were elected by unanimous ballot. They were president, Reed Vollstedt; vice-president, Erwin S. Fowler, Milton Nursery Co., Milton-Freewater, and treasurer, Paul Van Allen, Portland Wholesale Nursery Co., Portland.

Previously elected by the various chapters to serve on the state board of directors were the following: Cas-



Oregon Association of Nurserymen officers elected at the Eugene convention: Left to right, Reed Vollstedt, president; Robert Snodgrass, outgoing president, and Erwin Fowler, vice-president.

cade chapter, J. Vernon Marshall, Medford; Clackamas chapter, Laurence Effinger, Oregon City; Columbia River chapter, William Moller, Fairview, and Hans Nelson, Troutdale; Emerald Empire chapter, Bruce Brechtbill, Eugene; Rose City chapter, Martin Holmason and Robert Walker, both of Portland; Sunset chapter, Phineas McCoury, Astoria, and Wayne Melott, Forest Grove, and Willamette chapter, P. H. (Jock) Brydon, Salem. Immediate Past President Robert Snodgrass, Portland, will serve one more year on the board.

Directors' Meeting

The board of directors of the association met the evening before the convention, January 27, in the Eugene hotel. Valleau Curtis was a guest at the meeting, having arrived from Salt Lake City, Utah, where he had just attended the meeting of the Utah State Nurserymen's Asso-

ciation. The report of Treasurer Paul Van Allen proved the association to be in sound financial condition. Membership chairman Reed Vollstedt reported a healthy membership status. Among the accomplishments cited at the board meeting were those of the transportation committee, chairmaned by Robert Mullison, Fairview, and the legislative committee, whose chairman was Sam Rich, Hillsboro. The board decided to hold the 1961 convention at Portland sometime in January. The board decided against promoting any particular brand name, and it was not interested in an insurance program. Concerning the latter, members of the board felt that the A. A. N. insurance program is excellent and that no other program need be explored by the O. A. N.

The first day of the convention opened with registration in the King Cole foyer. President Robert Snod-

(Continued on page 109)



The newly elected treasurer of the Oregon Association of Nurserymen, Paul Van Allen (left), shown at the group's recent meeting at Eugene with Valleau Curtis (center), A. A. N. president, and L. H. McGuire (right), director, A. A. N. region VI.

Sorting the Woody Ornamentals

Philadelphus Popular for Spring White

By Donald Wyman

Horticulturist, Arnold Arboretum

The mock oranges are naturally popular, for the species and varieties are all easily propagated by either hardwood or softwood cuttings, they grow rapidly and they quickly make salable plants. Over 50 species and varieties are being grown by American nurserymen. In the recommended list to follow, there are only a half-dozen varieties apparently not now in the trade; so the group is not too difficult for selection.

With all the many ornamental shrubs available to plantmen today, one should take a hard look at the philadelphus species, even though they are easily and quickly grown. All have white flowers, no interesting fruits and only a yellow or yellowish autumn color. It can be noted, then, that most are of value only for the 2-week period that they are in flower, unless they have some other meritorious characteristics.

Some do! For instance, *P. coronarius*

is excellent for planting in dry soil situations; many varieties have extremely fragrant flowers, and some, like *P. laxus* and *P. splendens*, have branches facing the ground well on all sides, to such an extent that they are ornamental specimens throughout the year. Such plants have value.

On the other hand, many of the species are not very fragrant or they are tall and overly vigorous, requiring considerable pruning. Such plants as *P. pubescens* and *P. monstrosus* are just too big.

Many Lemoine Introductions

It is of particular interest to note that, after a careful study of nearly 100 clones, of those selected as the best all but five were originated by the Lemoine nursery, in France. As everyone knows, many excellent plants have been introduced by this firm, and in no group is the propor-

tion so high as it is in philadelphus. Some of the single and many of the double-flowering varieties are good ornamentals, and some of them are extremely fragrant, thus being doubly valuable.

There are several hybrid species, such as *P. cymosus*, *P. lemoinei* and *P. virginalis*, which should not be grown as such. It is extremely important to list only the better named clones from each group. Mediocre plants can quickly come into being if such species are maintained (and listed) when grown from seeds.

The heights of these mock oranges range from four feet to 10 feet. This height range is important because it makes possible selection of varieties which can easily be maintained at the lower heights without considerable pruning. Such low plants are, of course, becoming increasingly popular.

It is also advisable to be careful in the selection of hardy clones. Some of the Lemoine hybrids are hardy only in zone 5; quite a few have been omitted altogether because they are hardy only in zone 7. It does not pay to grow semihardy shrubs just on the chance that they will prove hardy over a period of at least a few years, for they can become black-listed by knowing plantmen. Such is the case with the deutzias in many areas right now.

Hardiness Important

Minnesota Snowflake and Frosty Morn are two of the hardiest of all the mock oranges, certainly of the double-flowered varieties, for they are reported to withstand temperatures of -30 degrees Fahrenheit. Because of their good form, double flowers and extreme hardiness they have become widely accepted by the trade. *P. coronarius*, *P. laxus* and Mont Blanc are the only mock oranges reliably hardy in zone 4; all the others in the recommended list are for zone 5 or even warmer climates.

Consequently, the value of these few mock oranges is emphasized. Hardiness is one of the reasons why

The illustrations accompanying this article were made from photographs supplied by the Arnold Arboretum, Jamaica Plain, Mass.



Philadelphus Albatare

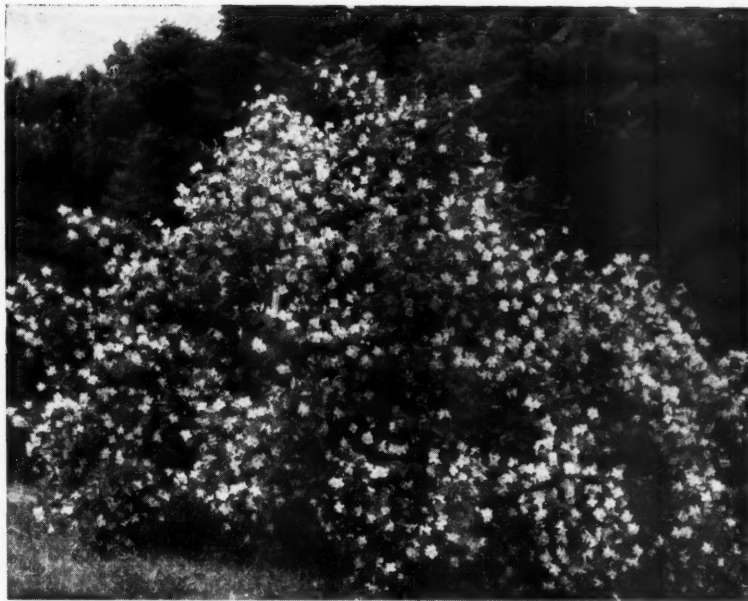
the big hoary mock orange, *P. pubescens*, is being grown in some places, for it is hardy in zone 4, but I feel that such big and vigorous shrubs, which frequently require considerable pruning, should not be grown for use as ornamental plants in gardens.

As far as time of bloom is concerned, most bloom within a 2-week period, starting about June 1 in the area of Philadelphia, Pa., and about a week or 10 days later in the vicinity of Boston, Mass.

The first major cross the Lemoines made was one in 1884, using *P. coronarius* and *P. microphyllus*, eventually named *P. lemoinei*. *P. microphyllus* species is a native of Colorado, New Mexico and Arizona, being only about three feet tall, with small dainty leaves and single fragrant flowers. It is none too hardy in New England. In any event, this cross gave rise to several excellent hybrids that proved better ornamentals than the somewhat tender *P. microphyllus* and the taller, more vigorous *P. coronarius*.

The next cross was one in which *P. lemoinei* was crossed with the tall-growing, large-flowered *P. grandiflorus*, in 1903. These clones were grouped under the name of *P. cymosus* and, as a rule, most of them are tenderer than some of the other hybrids.

The third cross, which resulted in more double-flowered varieties than the other crosses, was one in which *P. lemoinei* and *P. nivalis plenus* (probably) were used. The latter itself is a hybrid of *P. pubescens* and *P. coronarius*, so that in crosses of these two hybrids, many interesting segregates could be expected. The name of the final cross was *P. virginialis*, which gave rise to larger and more vigorous clones than those of either *P. cymosus* or *P. lemoinei*. Other crosses have been made, but the three mentioned are the most



Philadelphus Coronarius

important ones, all accomplished by the Lemoines.

In any event, the 28 mock oranges in the recommended list should represent the best of the group, with variety enough in size, habit, flower and hardiness so that most of the others need not be considered for general ornamental use.

Philadelphus Recommended

Following the name of each recommended species or variety appear its natural height at maturity expressed in feet, its hardiness zone, its place of origin and, in some cases, its common name.

P. coronarius, 9, Z 4, southern Europe, sweet mock orange—Single flowers, 1½-inch diameter. The true *P. coronarius* is still one of the most fragrant of all, but has been badly mixed in the trade with poor types.

P. coronarius aureus—The foliage

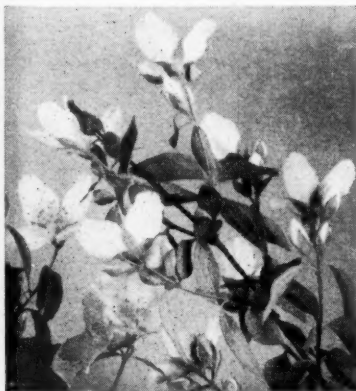
first appears a good yellow in the early spring and gradually turns to green later in the summer.

P. incanus, 9, Z 5, China, gray mock orange—Single flowers, 1¾-inch diameter, slight fragrance, but it is one of the last of all the mock oranges to come into bloom. If not desired for this reason, it might well be discarded.

P. inodorus, 9, Z 5, SE U. S. scentless mock orange—Single flowers, 2-inch diameter and only slight fragrance; however, it is the only mock orange to have glossy green leaves, making it a fine ornamental specimen.

P. laxus, 6, Z 4, Ga., drooping mock orange—Single flowers, 1½-inch diameter, only slight fragrance. The branches face the ground on all sides, making this a good foliage specimen.

[Continued on page 68]



Philadelphus Avalanche



Philadelphus Virginal



Philadelphus Albatre



Shown above at the Kentucky Nurserymen's Association convention held January 25 to 27 at Lexington are (left to right) A. S. Gresham, Jr., director, A. A. N. region II, Robert Hillenmeyer, newly elected K. N. A. president; Grace G. Walker, re-elected treasurer, and Herman Wallitsch, retiring president.

Oppose Licensing Law At Kentucky Convention

By Howard Tilson

The 34th annual convention of the Kentucky Nurserymen's Association, held at the Lafayette hotel, Lexington, Ky., January 25 to 27, had an excellent start with a luncheon at 12:30 p. m. Monday, with 41 persons present. The exhibit space had been wisely planned and added interest to the meetings, with appropriate prizes being offered.

At the concluding business session, the following officers were elected and the new president was installed: President, Robert Hillenmeyer, Hillenmeyer Nurseries, Lexington; vice-president, Charles Law, Blue Star Nursery, Millersburg; secretary, Howard Tilson, University of Kentucky; treasurer, Grace G. Walker, Kingsley Walker Co., Louisville, and executive committee member, Ward Hallenborg, Hallenborg's Nursery, Anchorage. Robert Hillenmeyer was named A. A. N. delegate, with Charles Law, alternate.

Oppose License Bill

The first discussion of the meeting was on the proposed horticultural licensing law, which had first been considered five years ago. A draft of a proposed bill, house bill No. 89, had been prepared for the Kentucky general assembly with the sponsorship of the Kentucky Florists' Association. After a brief

review by the secretary, this proposed bill brought a lively open discussion, ending in a motion that the association go on record as being opposed to it. A resolution was adopted setting forth the feelings of the association, and the secretary was instructed to send copies of the resolution to members of the legislature.

A buffet dinner was served in the Lafayette room at 6:30 p. m. This was followed by entertainment provided by members of the department of recreation, city of Lexington.

Tuesday morning's meeting was opened with a brief report of business by President Herman Wallitsch, Wallitsch Nurseries, Louisville.

Japanese Beetle Situation

A review of the Japanese beetle survey and control activities was given by Howard Tilson, deputy state entomologist and secretary of the association. Although several spots in Kentucky have shown Japanese beetle infestations, the prompt and timely use of the appropriate soil insecticides has resulted in effective control of the pests in every case. Much of the credit for the success of these efforts was given to the wholehearted support received from nurserymen. A motion to con-

tinue and strengthen the support of Japanese beetle control in Kentucky was passed, and the regulatory officials were urged to continue their efforts.

University Program Expanded

Dr. Frank Welch, dean of the college of agriculture and home economics and director of the agricultural experiment station, University of Kentucky, welcomed the group. He reviewed the policies of the college and station in relation to segments of agriculture, saying it had not been possible to do much for ornamental horticulture in years past. Dr. Welch then told the prospectus for future work at the institution, in which ornamental horticulture will have an expanded place. The acquisition of a 200-acre tract, known as the south farm, four miles from the university campus, will permit horticultural research. Both the teaching and research phases of horticulture are being expanded by the college, and it is now possible for a student to receive a degree with a major in landscape architecture. It is hoped that scholarships in this field can be added within the near future.

Members of the staff in horticulture and entomology were called on for a review of research and recommendations concerning nursery production. Dr. J. D. Kelly reviewed his research in plant propagation and feeding. He brought out some interesting possibilities of the influence of day length on stock plants in relation to the rooting of cuttings. Another practical phase of Dr. Kelly's research is his study of various fertilizer levels as an influence on the viability of rooted cuttings. He found from his first observations that rooted cutting of taxus survived much better under comparatively low levels of available nitrogen. Dr. Kelly showed several colored slides of his research beds, plots and methods of study.

Herbicide Study Told

Dr. J. W. Herron reported on the continuation of his study of herbicides in nursery crop production. Past efforts have been largely directed toward a screening of materials in relation to nursery crop tolerances. The present phase of the study is directed toward determining the practical time and methods of application in relation to cost and labor saved. The granular materials are receiving considerable attention, because of their easier application. Dr. Herron again cautioned those who use herbicides

[Continued on page 102]

Tennessee Group Elects at Nashville

By D. P. Henegar

The Tennessee Nurserymen's Association held its 55th annual convention January 31 to February 2 at the Hermitage hotel, Nashville, with almost 100 nurserymen attending. At the election of officers held February 2, B. H. Valentine, Valentine Nurseries, Cosby, was named president; L. M. Murphy, Murphy's Nursery, Smithville, first vice-president; Clark C. Boyd, Boyd Nursery Co., McMinnville, second vice-president; Bryan Howell, Howell Nurseries, Inc., Knoxville, third vice-president, and Hoskins Shadow, Tennessee Valley Nursery, Winchester, treasurer.

Registration opened at 4 p. m. January 31, and at 6 o'clock there was a social hour, followed by a buffet dinner at 7:30. Monday morning, after coffee and doughnuts were served, the meeting was called to order by President Charles N. Morse, Jr., Morse Bros., Chattanooga.

The invocation was given by Edwin G. Fraser, Southern States Nurseries, Macclenny, Fla., president of the Southern Nurserymen's Association. Joe E. Torrance, director of finance, city of Nashville, gave the T. N. A. members, their families and guests attending the convention a warm welcome to Nashville.

In his address, President Morse urged the members to take a more active interest in matters such as legislation and research as well as in production and marketing problems. Hoskins Shadow; John Varnell, Cleveland, and Tom Faulkner, Maryville, were appointed to serve on the necrology committee, and Hubert Nicholson, Decherd; Archie Cultra, Rives, and B. R. Allison, Nash-

ville, were named to the auditing committee. Reports of the financial status and general condition of the association were given by Treasurer Hoskins Shadow and Executive Secretary D. P. Henegar, McMinnville.

A. A. N. Report

Vincent K. Bailey, J. V. Bailey Nurseries, St. Paul, Minn., vice-president and director of region IV of the American Association of Nurserymen, a guest of the T. N. A., was introduced by President Morse. Mr. Bailey gave an interesting address on the activities of the A. A. N. and outlined many of the benefits of a trade association.

He invited A. A. N. members to attend the management conferences that will be held this year at Sagamore, N. Y., and Lake Arrowhead, Calif. Mr. Bailey urged all members to cooperate in the horticulture specialties census of 1960, stating that the data gathered should be a great help in backing up the industry's position in many matters of a legislative nature.

During the session on Monday, Charles W. Waterfield, vice-president in charge of business development, First American National Bank of Nashville, spoke on the "Economic Outlook and Construction Estimates for 1960." Mr. Waterfield stated that, even after 14 years of almost uninterrupted business progress, there is much more to be expected on the credit side than on the debit side in the year ahead.

He noted, however, that housing starts in 1960 will probably be 10 per cent fewer than last year, because of the present tight money situation.

In closing, he asserted that inflation is the most important and least understood economic problem today.

Monday Tours

Lunch was served Monday noon at the Blue Grass Country Club. In the afternoon a tour was made to Old Hickory dam and lake and also through the manufacturing facility of the Ferro Corp., a fiber glass producer.

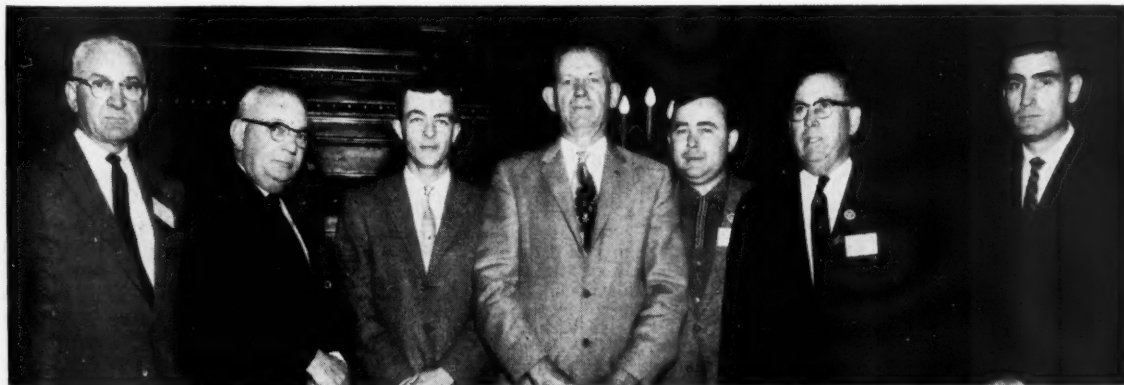
Monday evening in the ballroom of the Hermitage hotel, two members of the T. N. A. entertained the group with films of a trip to Cree lake, Saskatchewan, Canada (this by Bill Green, Green's Nursery, Mount Juliet), and a hunting trip to Wyoming (this by George Morehead, Morehead Tree Surgery, Nashville).

During the session Tuesday morning there were interesting reports from Dr. E. B. Knight, Tennessee Polytechnic Institute, Cookeville; Dr. B. S. Pickett, University of Tennessee, Knoxville, and H. L. Bruer, Tennessee state entomologist.

Another outstanding feature of the convention was an illustrated discussion of hollies by Fred Galle, superintendent of horticulture, Ida Cason Callaway Gardens, Pine Mountain, Ga.

A panel discussion on plant identification was moderated by Hoskins Shadow, with Fred Galle, Dick Jones and Tom Faulkner as panel members. Much interest was shown in these features, as indicated by the number of questions.

Gordon Scott, director of the Tennessee Botanical Gardens and Fine [Concluded on page 162]



New officers of the Tennessee Nurserymen's Association at the group's convention at Nashville: Left to right, Hoskins Shadow, treasurer; D. P. Henegar, executive secretary; Bryan Howell, third vice-president; B. H. Valentine, president; Charles N. Morse, Jr., outgoing president; L. M. Murphy, first vice-president, and Clark C. Boyd, second vice-president.

National Arborist Group Holds Chicago Meeting

By Noel B. Wysong

The winter meeting of the National Arborist Association, held January 31 to February 2, in the Hotel LaSalle, Chicago, Ill., was attended by 105 members and invited guests. Those present represented tree organizations throughout the United States, and problems pertinent to the industry were discussed in formal papers presented on the program.

The convention opened with registration and a hospitality party Sunday afternoon. The evening was devoted to a meeting of the board of directors and the finance committee, in which the association's yearly budget and matters of policy were discussed. It was announced that 189 tree service organizations are represented in the membership of the association, an increase of four since the annual business meeting of the association, held in August, 1959, in the Statler-Hilton hotel, Detroit, Mich.

N.A.A. President James T. Turner, Turner Tree Service, Atlanta, Ga., called the meeting to order at 9:30 Monday morning and extended a welcome to the members. The first speaker on the program was Paul E. Tilford, executive secretary of the National Arborist Association, and the subject of his paper was "Fertilizer Injury to American Beech."

Beech Feeding Problem

Citing three instances of beech tree deterioration following the use of fertilizer, Dr. Tilford said the leaves began dying about one month after the material was applied. In each case, a number of beech trees were involved. Weakened by excessive loss of foliage, he said, the trees were invaded by borers, and several of them died.

The fertilizer used, he said, was approximately a 10-6-4 mix, distributed in the soil at the rate of three to three and one-half pounds per inch of trunk diameter, and the applications were made in the early spring. Prior to the time of application and following, there was abundant rainfall, and the soil contained more than the normal amount of moisture. Elm, oak, buckeye and other trees treated with the same fertilizer, at the same time, and at the same rates showed no injury, nor

did beech trees that were treated later in the season.

In an effort to determine the cause of the injury, samples of the fertilizer were tested for possible toxic ingredients, but none was found. Different parts of the injured trees, Dr. Tilford said, also were tested for fungi and other parasitic organisms, but again nothing destructive was found.

The conclusion was reached that the fertilizer was responsible for the injury, but that it occurred primarily because of the wet soil conditions. He pointed out that under such conditions the components of inorganic fertilizer may be absorbed so quickly by the roots that harm is caused to sensitive trees.

ARBORIST OF THE YEAR



The "Arborist of the Year" award was presented to Anthony C. Knof, certified tree expert, Bloomfield, N. J., by the Arborist Association of New Jersey at its recent annual awards dinner-dance. He is shown above (at left) receiving congratulations from Charles Post, A. A. N. J. president (right), while Ernest Ricca, master of ceremonies at the event, looks on.

Mr. Knof was tendered the award in recognition of outstanding efforts in behalf of his fellow tree experts. Immediate past president of the arborists' association, he has been instrumental in making extensive educational courses available for those engaged in tree care.

Presently he is heading a drive for the passage of a New Jersey certified tree experts' licensing law in the capacity of joint chairman, representing the Arborist Association of New Jersey, the New Jersey Certified Tree Experts Society and the New Jersey Federation of Shade Tree Commissions.

Remarking that American beech is known to be rather intolerant of conditions that generally prevail in areas where it is used as an ornamental, he suggested treating beech with much caution and using only about one-half the amount of fertilizer that might be applied in treating other tree species. He advised that when fertilizer is used with beech about one third of its nitrogen content should be bone meal or other material of organic origin.

Fertilizing Standards

After Dr. Tilford's discussion, a report was given by Freeman L. Parr, Parr & Hanson, Inc., Hicksville, N. Y., on the progress made in preparing a National Arborist Association booklet on "Standards of Practice for Fertilizing Shade Trees." Questionnaires were forwarded to all association members, Mr. Parr said, and his report covered points on which there was general agreement in the use of fertilizer.

Included were the following: (1) Use three to five pounds of fertilizer for each inch of tree trunk diameter measured at breast height for trees above six inches in diameter; one-half that amount for smaller trees. (2) Smaller amounts of fertilizer should be used if the tree is narrow crowned. (3) Fertilizer may be applied beneficially well beyond the drip line of the branches, especially if the crown is narrow. (4) Fertilizer introduced into the soil should be kept at least two and one-half inches below the soil surface to avoid injuring grass. (5) Often it is beneficial to mix inorganic fertilizer with the backfill in planting trees. (6) When shrubs are involved, avoid placing fertilizer close to the main stems.

License Discussion

The Illinois tree experts law was discussed by Noel B. Wysong, of the Cook county forest preserve district, River Forest, Ill., and compared with the model licensing law for arborists proposed recently by the nomenclature and standards committee of the National Shade Tree Conference. Stating that interest in legislative regulation of tree service work generally appears to be increasing, Mr. Wysong suggested that each member of the National Arborist Association obtain copies of the proposed model law and others that are in effect in various states and give them careful study for possible future action.

Pointing out that modern arboricultural practices entail the use of many dangerous chemical com-

[Continued on page 137]

Retailing Problems Stressed in Colorado

By M. William Stellmon

The practical requirements of conducting a retail business claimed the attention of those attending the annual short course for nurserymen and arborists held February 8 and 9 in the Student Union building on the campus of the Colorado State University, Fort Collins. The course is sponsored jointly by the Colorado Nurserymen's Association and the university.

Officers for 1960

Kenneth G. Wilmore, Green Bowers Nursery & Garden Center, Denver, was elected president of the Colorado Nurserymen's Association at the conclusion of the short course, succeeding Cliff Morgan, Williams Gardens, Greeley. Steve Driftmier, W. W. Wilmore Nurseries, Inc., Denver, was named vice-president, and Stanley E. Brown, Alameda Nursery, Inc., Denver, was re-elected secretary-treasurer. Gladys



New officers of the Colorado Nurserymen's Association elected at Fort Collins convention: Left to right, Stanley E. Brown, secretary-treasurer; Kenneth G. Wilmore, president, and Steve Driftmier, vice-president.

Pope, also with the Alameda Nursery, was reappointed executive secretary.

The largest group in 16 years of these meetings, nearly 200, was given advice on store management, merchandising, sales, use of credit and other problems by a series of speakers. Attendants also heard recommendations that they continue to help expand the number of good trees and shrubs, particularly the smaller species, that are adaptable to Colorado conditions.

Talk on Tree Selection

Dr. Donald Wyman, horticulturist, the Arnold Arboretum, Jamaica Plain, Mass., and a featured speaker at the short course, suggested that nurserymen in the state look more toward the small trees and dwarf shrubs for landscaping. "In the east, greater emphasis is being given small trees because they are often in bet-

ter scale with the 1-story house, and watering and other care are simpler," Dr. Wyman noted.

Some of these smaller trees have multiple interests, flowers in the spring, fruit in the summer and fall and color in fall and winter. Among his suggestions for smaller trees worth trying in Colorado were many of the crab apples, varieties of cherry, linden, hawthorn, the Korean mountain ash and others.

Discussing the dwarf shrubs for landscaping, Dr. Wyman said a garden of these offers just as much variety in form and as much continuity in color as the garden that uses larger plants. And the dwarf specimens require little maintenance. He illustrated his talks with a series of slide photographs of the smaller plants taken at the Arnold Arboretum and elsewhere.

Business aspects of nurseries were
(Continued on page 85)



Taking part in the short course for Colorado nurserymen and arborists were, left to right, Jens Ihrke, Mount Arbor Nurseries, Shenandoah, Ia.; Dr. A. M. Binkley, head, C. S. U. horticulture department; Patrick Gallavan, Colorado Horticultural Association, Denver; Dr. Donald Wyman, horticulturist, Arnold Arboretum, Jamaica Plain, Mass., and R. T. Hopkins, branch manager for the California Spray-Chemical Corp. at Salt Lake City, Utah.



A discussion of broad-leaved evergreens in Colorado was presented by these panelists during the short course held February 8 and 9 at Colorado State University. Panel members were, left to right, seated, Scott Wilmore, Wilmore Nurseries, Inc., Denver; Al Foster, Kroh Bros. Nursery, Loveland; Harry Swift, Western Evergreens, Denver, and George Kelly, Cottonwood Garden Shop, Littleton. Standing is the panel moderator, Carl J. Jorgensen, C. S. U.

Panels Featured At Institute for North Californians

By Richard B. Kilner



Panel members who discussed "Plants for Problem Areas" at the northern California institute: Left to right, May K. Arbegast, Harry M. Butterfield, Percy C. Everett, Maynard W. Cummings, Milton Fireman and Richard W. Harris.

The northern California nurserymen's institute, presented by the University of California, agricultural extension service and the California Association of Nurserymen, was held on the Berkeley campus of the university February 3. Upon completion of registration, directed by Herman Sandkuhle, Jr., Sunset Nursery Co., Oakland, the meeting was opened by Leo Dupuich, Encinal Nursery, Alameda, chairman of the C. A. N. northern California institute committee.

The program was the same as that presented at the southern California institute held the previous week at the Los Angeles campus. Most of the speakers and many of the panel members participated at both ends of the state. The morning session was primarily devoted to speeches and discussion on certain problems; the afternoon consisted of question and answer panels covering those topics. The February 15 issue carried a report of the speeches, while this issue will review the question and answer panels of both institutes, incorporating new material brought out by the speakers at the northern institute. There were three panels, which met for three sessions of one hour each. At the end of each hour, the audience rotated to take in the next panel, although those who wished to could sit in on the same panel for the entire afternoon.

Materials and Names

John N. Fiske, farm adviser, Napa county, was moderator for the panel "Plant Materials and Plant Names." The panel members were Dr. Mildred Mathias, department of botany, U. C. L. A., and Wray F. Hiltabrand, chief, bureau of nursery service, California department of agriculture, Sacramento, who were the

speakers on problems of plant names. The other panel members were the participants in the "Plants for Problem Areas" discussion, moderated by Dr. Richard W. Harris, department of landscape horticulture, Davis, who also was a leading organizer of the northern institute, along with Marston Kimball, extension specialist in ornamental horticulture. The other members and their particular subjects of discussion were May K. Arbegast, department of landscape architecture, Berkeley—"Erosion Control"; Harry M. Butterfield, agriculturist emeritus, agricultural extension service—"Lawn Watering and Poor Drainage"; Percy C. Everett, superintendent, Rancho Santa Ana Botanic Gardens, Claremont—"Dry Landscape"; Maynard W. Cummings, extension vertebrate pest control specialist, Davis—"Deer and Rodent Resistance," and Milton Fireman, agricultural extension service, Davis.

At the southern institute, this panel was moderated by Dr. V. T. Stoutemyer, chairman, department of floriculture and ornamental horticulture, U. C. L. A. In addition to Messrs. Hiltabrand, Cummings and Everett, it consisted of Stanley E. Spaulding, graduate student, department of floriculture and ornamental horticulture, U. C. L. A.; A. J. Gooch, landscape architect, Los Angeles; James A. Perry, Perry's Plants, Montebello, and immediate past president of the C. A. N., and Philip E. Chandler, horticultural consultant and instructor, Santa Monica.

Erosion Control Methods

In her comments on erosion control, Miss Arbegast differentiated between sheet erosion, which affects the upper two or three inches of the

soil, and gully erosion, which is the deeper and more serious type. She stated that the way to control runoff is by intercepting the rain drops before they hit the ground, thus breaking their velocity and dispersing them. This prevents the formation of sheets of water, that cause erosion damage. In selecting plants for erosion control, Miss Arbegast suggested looking for the following physical aspects:

- (1) Wide-spreading foliage to break the fall of the water;
- (2) extensive and fast-maturing root system;
- (3) ability to survive with crown covered, if possible;
- (4) if ground cover, ability to root along ground;
- (5) adaptability to climate of area;
- (6) tolerance to neighboring plants, and
- (7) disease and insect resistance.

To a question on irrigation, Miss Arbegast stated that usually one can expect better growth and coverage with irrigation, especially in the first year, even for drought-resistant plants. She also suggested staggering plants and terracing to form a ledge, or any other type of planting to break up a straight line.

Los Angeles recently passed an ordinance affecting nurserymen, whereby the contractor must provide and maintain control against erosion of cut-and-fill slopes. This ordinance will be enforced by the grading division of the department of building and safety. An approved list of drought-resistant plant materials for this purpose has been issued. There are new erosion control materials available to assist in the problem, in combination with plant materials or until the plant materials can take over. These include plastic and paper pulp items, as well as Gunite and bituminous products,

[Continued on page 151]

STOP WEEDS *before they come up!*



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PRE-EMERGENCE HERBICIDE

WEED CONTROL

One application—up to 3 months control of most annual broadleaf weeds and grasses. Two years' commercial use. *Safe to nursery stock* when used according to directions on label.

Safe to humans and animals. Does not destroy bacteria, fungi, or other soil micro-organisms.

Weed control savings up to \$180.00 per acre have been obtained.

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Flowering TREES

Use them for shade as well as decoration where space is limited. Also desirable for potting or canning for year-round sales.

Flowering Crab Apples

	Each Per10	Each Per100
Almey		
6 to 8 ft.....	\$2.75	\$2.50
5 to 6 ft.....	2.25	2.00
Dolgo		
5 to 6 ft.....	1.50	1.35
4 to 5 ft.....	1.20	1.10
3 to 4 ft.....	.85	.75
Eleyi		
6 to 8 ft.....	1.90	1.75
5 to 6 ft.....	1.65	1.50
Hopa		
4 to 5 ft.....	1.10	1.00
3 to 4 ft.....	.80	.70
Jay Darling		
6 to 8 ft.....	1.90	1.75
5 to 6 ft.....	1.65	1.50
3 to 4 ft.....	.95	.85
Niedzwetskyana		
6 to 8 ft.....	1.90	1.75
5 to 6 ft.....	1.65	1.50
4 to 5 ft.....	1.20	1.10
Profusion		
5 to 6 ft.....	1.65	1.50
4 to 5 ft.....	1.30	1.20
Redfield		
5 to 6 ft.....	1.65	1.50
Redford		
6 to 8 ft.....	1.90	1.75
5 to 6 ft.....	1.65	1.50
4 to 5 ft.....	1.30	1.20
Red Silver		
5 to 6 ft.....	1.65	1.50
4 to 5 ft.....	1.30	1.20
3 to 4 ft.....	.95	.85
Scheideckeri		
5 to 6 ft.....	1.65	1.50
4 to 5 ft.....	1.30	1.20
3 to 4 ft.....	.95	.85

Flowering Locust

	Each Per10	Each Per100
Idaho, pink blossoms		
8 to 10 ft.....	\$3.50	...
6 to 8 ft.....	3.00	\$2.75

Flowering Peach

Cardinal		
5 to 6 ft.....	1.20	1.10
4 to 5 ft.....	.95	.90
3 to 4 ft.....	.70	.65
2 to 3 ft.....	.55	.50
Charming		
5 to 6 ft.....	1.20	1.10
4 to 5 ft.....	.95	.90
3 to 4 ft.....	.70	.65
2 to 3 ft.....	.55	.50
Iceberg		
5 to 6 ft.....	1.20	1.10
4 to 5 ft.....	.95	.90
3 to 4 ft.....	.70	.65
2 to 3 ft.....	.55	.50
Peppermint Stick		
5 to 6 ft.....	1.20	1.10
4 to 5 ft.....	.95	.90
3 to 4 ft.....	.70	.65
2 to 3 ft.....	.55	.50

Flowering Plums

Newport		
3 to 4 ft.....	1.10	1.00
2 to 3 ft.....	.80	.75
Triloba		
3 to 4 ft.....	1.10	1.00
2 to 3 ft.....	.80	.75
18 to 24 ins.....	.65	.60

Redbud

1½ to 2-in. cal.....	6.00	...
1¼ to 1½-in. cal.....	4.00	...
8 to 10 ft.....	3.50	...
6 to 8 ft.....	2.75	2.50
5 to 6 ft.....	2.25	2.00

HALL'S HARDY FRUITING ALMOND

Can be grown wherever Peach trees will grow. Rapid growing, bears young. Large, fine-quality nuts. Attractive bloom, deep green foliage.

	Each Per10	Each Per100
5 to 6 ft.....	\$1.50	\$1.35
4 to 5 ft.....	1.20	1.10
3 to 4 ft.....	.95	.90
2 to 3 ft.....	.75	.70

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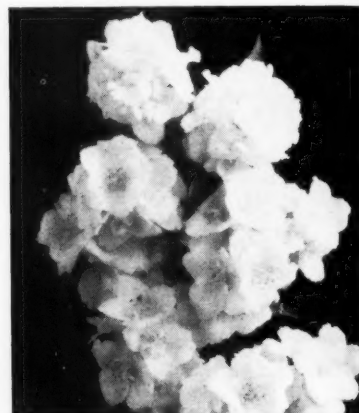
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COVER ILLUSTRATION

Philadelphus Virginalis Bouquet Blanc

The plant pictured on the front cover has been growing in the Arnold Arboretum, Jamaica Plain, Mass., since 1905, when it was first sent to America by Lemoine et Fils, in France. It is one of the several clones or cultivars listed in the hybrid group of *Philadelphus virginalis*. As everyone knows, the Lemoines were excellent hybridizers and are responsible for many of the best of our horticultural varieties, which are highly valued today, in such genera as *deutzia*, *philadelphus* and *syringa*, to mention only three.

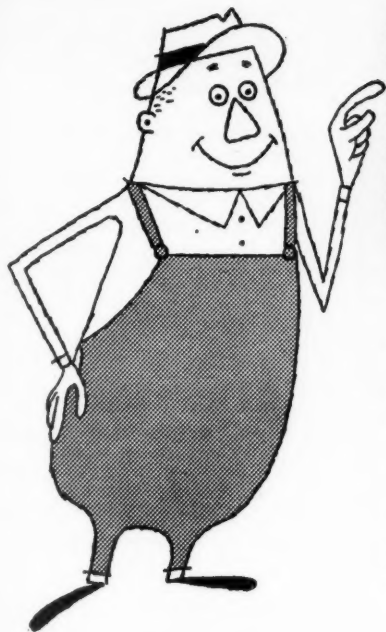
Outstanding *philadelphus* varieties have appeared since, but just because a variety is old, there is no



Philadelphus Bouquet Blanc

reason to discard it if it has sterling qualities as good as or better than the newer varieties. This variety was first introduced in 1903, grows about six feet tall and is definitely well rounded in habit, with branches facing the ground well on all sides, something that cannot be said of the very popular variety *Virginal*, which tends to get leggy and is devoid of branches at the base as it grows older, so that it does not make so good a specimen plant and should be used in the background with smaller plants in front. *Bouquet Blanc*, on the other hand, can be used as a specimen, for it has good shape and foliage; it is of interest even when the flowers are not open.

The flowers of *Bouquet Blanc* are single, with a few semidouble, about an inch in diameter and slightly fragrant. They are borne in clusters of seven to nine, so that they make



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NOW ROLLING EASTWARD! Our friends say our pool car deliveries and extra services have made their rose business more profitable and easier to handle. Here are the reasons why:

1. Every bush is labeled—no variety mix-ups.
2. Every bush is top-tied—easier to handle.
3. Every bush trimmed to your specifications. Save on freight, storage space and time.
4. Free color pictures—help you to sell.
5. Color folders for direct mail—at our cost.
6. Pliable fibrous root systems and short shanks make P&D Roses easier to pot, easier to grow.
7. P&D Roses arrive fresher, keep better—pool cars are mechanically refrigerated at 33°.

Phone, wire or write your order today!

These roses available in grades #1 and #1½

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SELECTIONS FROM
THIS LIST OF
P&D ROSES

PATENTED HYBRID TEAS

American Flagship
Audle Murphy
Bingo
Blanche Mallerin
BURNABY
Confidence
First Love
Fort Knox
FORT VANCOUVER
Forty-Niner
Fred Edmunds
Fred Howard
Garden Party
Golden Wings
Grande Duchesse Charlotte
Helen Traubel
Lady Luck
Lemon Chiffon
Living Rose
Love Song
Lowell Thomas
Mirandy
Nocturne
OREGON CENTENNIAL
Peace
PINK FAVORITE
Rose of Freedom
Tallyho
THE DUKE
Tiffany
White Knight

PATENTED GRANDIFLORAS

Buccaneer
Dean Collins
Montezuma
Queen Elizabeth
Roundelay
Starfire

PATENTED FLORIBUNDAS

AMY
BELLINA
Circus
ENCORE
Fire King
Fusiller
Gold Cup
Goldilocks
Ivory Fashion
Pinkie
Sarabande
White Bouquet

PATENTED CLIMBERS

Cl. Blossomtime
Cl. Chrysler Imperial
Cl. Coral Dawn
Cl. Crimson Glory
Cl. Gladiator
Cl. Golden Showers
Cl. High Noon
Cl. Parade
Cl. Pinkie
Cl. Spectacular

NONPATENTED HYBRID TEAS

Charlotte Armstrong
Condesa de Sagato
Countess Vandal
Crimson Glory
Eclipse
Ena Harkness
Etoile de Hollande
Frau Karl Druschki
Karl Herbst
Lulu
Mme. Henri Guillot
Mrs. E. P. Thom
Mrs. F. S. du Pont
Mrs. Sam McGredy
McGredy's Ivory
McGredy's Yellow
Nigger Boy
Picture
President Hoover
Saturnia
Sister Therese
Snowbird
Tallman
Texas Centennial
The Doctor
Virgo

NONPATENTED FLORIBUNDAS

Betty Prior
Charlie McCarthy
Else Poulsen
Floradora
Frensham
Garnette
Improved Lafayette
Pinocchio
Poulsen's Bedder
Rose Elfe

NONPATENTED CLIMBERS

Cl. American Beauty
Cl. City of York
Cl. Doubleblooms
Cl. Dr. J. H. Nicolas
Cl. Gold Rush
Cl. Mrs. E. P. Thom
Cl. New Blaze
Cl. New Dawn
Cl. Paul's Lemon Pillar
Cl. Paul's Scarlet
Cl. Ruth Alexander
Cl. Snowbird
Cl. Tallman
Cl. White Dawn
Cl. Zenith

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**For the Legitimate Nurseryman
Here's the best practical answer
To cut-rate chain-merchandising**

A HEALTHY, THRIVING PLANT GROWING IN A STURDY *Cloverset* Pot

DEVELOPED 30 years ago to combat cut-rate competition during depression days, the CLOVERSET POT is still the nurseryman's best answer to chain store merchandising. Why worry about meeting price competition? You can make more money selling the quality-conscious market we can assure you still exists.

MAKE MORE MONEY—SELL QUALITY. A thriving plant, growing in its own Cloverset Pot, makes an attractive display, is convenient to handle and easy to sell because you can safely stake your own reputation on its satisfaction to the customer . . . something your price-cutting chain store competitors find it difficult to do. CLOVERSET pots make your quality story believable, your customers easy to convince they're getting the finest.

INCREASE CASH-AND-CARRY BUSINESS. Your customers will find mass displays of CLOVERSET potted plants so beautiful, so convenient to select from, the plants so easy to handle, they'll simply be unable to resist those extra purchases. Profitable cash-and-carry business should increase from the day you start using CLOVERSET pots.

PLAN NOW for Extra Profits This Spring!

Don't put it off! Decide to make more money this year. Just any old disposable pot won't do this merchandising job . . . there's more to it than that! **FOR COMPLETE INFORMATION FREE, send the coupon.**

SIZES FOR EVERY NEED: Roses, Perennials, Shrubs and Young Trees.

Size	Height	Top Diam.	Nearest Clay Pot	No. in Carton	WEIGHT Per 1000	F.O.B. Kansas City		Cloverset Pot Prices F.O.B. Kansas City.
No. 0	5½ ins.	5 ins.	6 ins.	200	210 lbs.	Per 100	Per 1000	
No. 1	6½ ins.	6 ins.	7 ins.	100	340 lbs.	\$4.25	\$40.00	
No. 2	9½ ins.	7 ins.	8 ins.	100	535 lbs.	5.25	50.00	
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	5.75	55.00	
						25 pots,	\$7.70; 50 pots,	
No. 4	13 ins.	12 ins.	.....	25	133 lbs.	\$14.60; 75,	\$21.75; 100,	
						\$26.15;	1000, \$231.00.	

SEND THIS COUPON for a sample set of Cloverset Pots

Cloverset Farm

Dept. AN 30,
10550 Wornall Rd. Kansas City 14, Mo.

☐ I enclose 50c; send sample set of Cloverset pots (limit, one set).

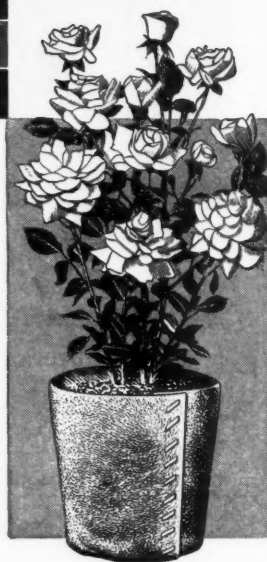
☐ Send information **FREE** on how to use Cloverset pots for greater profits!

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HERE'S WHY CLOVERSET POTS ARE SUPERIOR TO OTHERS ...

- 1 Lasts a full year or more in sales frame.
- 2 Contains roots safely within the soil ball; permits transplanting any time.
- 3 Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
- 4 Rests on wide bottom; no blowing over in the frames.
- 5 Available in sizes to accommodate stock of any salable size.
- 6 Is neat and uniform in appearance, an asset to the sales area.
- 7 Tough enough to permit easy handling in potting shed and frame.
- 8 Easy for customers to remove—at once, a week later or even a month after they take stock home.
- 9 Lightweight (but with all these qualities) to save on freight costs.
- 10 . . . and sufficiently low priced so that it may be given away with the plant.

a splendid show when in full bloom and often are so closely packed that the casual observer thinks they are double.

Admittedly, this variety and many others are not so hardy as the new Minnesota Snowflake and Frosty Morn, and for that reason it can only be recommended for hardiness in zone 5 or warmer areas. It is of value because of its well-rounded habit, its profuse and dense flower clusters and its ability to produce many flowers each year.

Donald Wyman.

MATERIALS SERVICE ELECTS AT NEW YORK

At a board of directors' meeting after the annual meeting of the Landscape Materials Information Service at the Hotel Manhattan, New York city, N. Y., January 14, the following officers were elected: Chairman, Valleau Curtis, Curtis Nurseries, Callicoon, N. Y.; vice-chairman, John J. Ryan; secretary, George Spicer, and assistant secretary, Mrs. Beulah Fortnam.

Addressing the general session of the group, William Reid, chairman of the New York City Housing Authority, discussed future plans. More nonflowering shrubs will be used, as they have less attraction for children, who make up a large part of the housing residents. Numbers of trees and shrubs and tons of fertilizer and grass seeds needed were given.

Chairman Curtis told the growth of the membership from about 30 members to the present 204 membership. Herman Brumme gave a complete report on the finances of the service, stating that there is now a reserve in the bank. A spring plant requirement listing will again be compiled from data obtained from landscape architects who are planning public projects.

Three new directors were elected, these being John J. Ryan, replacing Oliver A. Deakin; William Flemer III, replacing William Flemmer, Jr., and Harris Grand, succeeding himself.

Chairman Curtis was asked to investigate the possibility of holding the summer meeting at Bear Mountain park, N. Y., June 15 or 16. Wolcott Andrews urged participation in the June meeting of the American Society of Landscape Architects.

EXPANDING its facilities is the firm of Joe Criss, Jr., & Son, Tallmadge, O., which recently opened a garden center at 431 West avenue, to tie in with its landscaping business.

HOLLAND NURSERY PRODUCTS

P. O. Box 339, Madison Square Station

New York 10, N. Y.

AZALEA - mollis (Hardy Varieties Only)

Alphonse Lavallee, orange
Babeuf, orange-red
Chevalier de Reulle, good light yellow
Colonel F. R. Durham, vivid yellow
Comte de Quincy, sulphur-yellow

Comte Papadopol, good light rose
Consul Pecher, pink
Dr. Reichenbach, salmon-orange
Emile Liebig, salmon-orange
Frans vander Bom, salmon-orange

Hortulanus Witte, good orange-yellow
Hugo Hardyzer, bright red
J. C. van Tol, bright red
Nicholas Beets, yellow, tinted bronze
T. J. Seidel, salmon-orange
W. E. Gumbleton, yellow

Each
1-yr., T., grafts\$0.55
2-yr., T., grafts, 8 to 12 ins. 1.10
3-yr., T., grafts, 12 to 15 ins., budded; salable 1.60

CHOICE - mollis

Directeur Moerlands, best golden-yellow
Dr. M. Oosthoek, deep orange-red
Koster's Brilliant, orange-red
Lemonora, apricot-yellow
Mrs. G. van Noordt, carmine-red, large
Queen Emma, orange, large
Spek's Brilliant, vermilion-red, first-class certificate.

Each
1-yr., T., grafts\$0.65
3-yr., T., grafts, 12 to 15 ins., budded; salable 1.70

Each
Amelanchier grandiflora, pendulous white flowers,
1-yr., grafts\$0.45

Aralia chinensis mandschurica, to 20 ft. Spiny stems.
Leaves 2 to 3 ft. Flower panicle in August/September
about 2 ft. long. Hardy.
T., C.40
2 to 3 ft. 1.05

Carpinus betulus fastigiata
2 to 3 ft. 1.15
3 to 4 ft. 1.35

Cercidiphyllum japonicum, 1-yr., layers
18 to 24 ins.55
2 to 3 ft.95
3 to 4 ft. 1.15

Chionanthus virginicus (White Fringe), to 30 ft. Panicles
to 8 ins. of fine white flowers.
2-yr., T., grafts 1.10

Corylus contorta, entirely twisted branches.
Rare. Good showpiece.
12 to 15 ins. 1.15

Cotinus Royal Purple, layer-grown, 18 to 24 ins. 1.25
Cotoneaster horizontalis, 1-yr., T., layers35
Cotoneaster salicifolia floccosa, evergreen.

1-yr., grafts50
2-yr., T., grafts, bush, 18 to 24 ins.90
Campsis Yellow Trumpet, 1-yr., well-rooted70
Campsis Mme. van Galen, 1-yr., well-rooted80

Crataegus Paul's Scarlet
1-yr., grafts, whips, 4 to 5 ft.95
2-yr., br., 5 to 6 ft. 1.25

Cryptomeria cristata, 1-yr., grafts90
Cryptomeria yilmoriniana, 1-yr., grafts90
Foliage in tufted masses. Very distinctive
and attractive.

Davidia involucreta, layers 2.25
Elaeagnus ebbingei, silvery foliage beneath. Hardy.
1-yr., grafts55

Hamamelis mollis, golden-yellow flowers. Beautiful fall
coloring. 18 to 24 ins. 2.45

Fagus sylvatica asplenifolia (Fern-Leaved Beech)
Strong liners 1.00
3 to 4 ft. 2.80

Fagus sylvatica aurea (Zlatia) (Golden Beech)
2 to 3 ft. 2.30
3 to 4 ft. 2.80

Fagus sylvatica pendula, strong liners 1.00
2 to 3 ft. 2.15

Fagus sylvatica purpureo-pendula, strong liners 1.00
Fagus sylvatica Tricolor, strong liners 1.00
3 to 4 ft. (few) 2.80

TERMS: 20% cash with order, balance C.O.D. Credit to established accounts. Complete price lists on request.

AZALEA - pontica (Hardy Ghents)

Bouquet de Flore, deep pink
Cardinal, salmon-pink
Cocinea Speciosa, deep orange
Daviesi, white
Fanny, lilac-pink
Gloria Mundi, orange, late
Grandeur Triomphante, violet-rose
Ignaea Nova, carmine-red

Nancy Waterer, golden-yellow, choice
Narcissiflora, sulphur-yellow, double
Pallas, geranium-red
Raphael de Smet, shaded rose, double
Unique, yellow-orange
William III, yellow-orange

Each
1-yr., T., grafts\$0.60
3-yr., T., grafts, 12 to 15 ins., budded; salable 1.65

Each
Kerria japonica flora-plena, double yellow
2-yr., T., C., bush, 18 to 24 ins.\$0.50

Parrotia persica, very good fall coloring
12 to 15 ins.85

Philadelphus Klondike, F. C. C., 1956, large golden flowers, dwarf. 1-yr., C.35
12 to 15 ins.70

Robinia hispida Monument, pink flowers in long
racemes. Very attractive.
3 to 4 ft. 1.55
Robinia tortuosa, very twisted, 2 to 4 ft. 1.65
Robinia frisia, new. Yellow foliage, conspicuous
red thorns. 3 to 4 ft. 1.65
SPECIAL: 50 and up, less 10%
100 and up, less 20%

Sorbus aria decaisneana majestica, large leaves. Silvery-
white undersurface. Excellent trees. 50 and up, less
10%. 4 to 5 ft. 1.75

Sorbus aria lutescens (Yellowbeam Tree), attractive
3 to 4 ft. 1.30
4 to 5 ft. 1.55

Sorbus magnifica, large lustrous leaves
3 to 4 ft. 1.40
4 to 5 ft. 1.65

Stranvaesia davidiana, showy evergreen, red berries
1-yr., grafts, 12 to 15 ins.55

Viburnum bodnantense, very fragrant. Large
clusters of white flowers. Excellent. (fragrans
x grandiflorum). Layers40

Tilia euchlora, whips

Tilia petiolaris, whips

Tilia tomentosa, whips
2 to 3 ft. 1.20
3 to 4 ft. 1.60
4 to 5 ft. 1.80

Abies nordmanniana, outstanding dark evergreen. Silvery-
gray edged underneath.
Grafts, 2 1/4-in. pots 1.25

Picea orientalis, magnificent evergreen. Glossy green
needles.
Grafts, 2 1/4-in. pots 1.25

Picea omorika (Serbian Spruce), a beautiful
evergreen ornamental.
10 to 15 ins., heavy 1.25
18 to 24 ins., heavy 2.50

Wholesalers

HOLLAND NURSERY PRODUCTS

Importers

COLE'S SURPLUS LIST — SPRING, 1960

All Cole plants and trees are north-ern-grown under ideal soil conditions in widely spaced rows. Our modern mechanized methods insure sturdy plants with excellent root systems delivered to you in healthy condition. All items are strictly graded according to A. A. N. standards. We will be glad to quote on your needs.

ACER dasycarpum
1000 6 to 8 ft.
400 8 to 10 ft.
400 1½ to 1½-in. cal.
200 1½ to 2-in. cal.

CRATAEGUS macrantha succulenta
300 3 to 4 ft.
600 4 to 5 ft.

FRAXINUS pennsylvanica lanceolata
500 6 to 8 ft.
600 8 to 10 ft.
500 1½ to 1½-in. cal.
400 1½ to 1½-in. cal.

PLATANUS occidentalis
200 1 to 1½-in. cal.
300 1½ to 1½-in. cal.
100 1½ to 1½-in. cal.
100 1½ to 2 -in. cal.

POPULUS almon fastigiata
500 4 to 6 ft.
1300 6 to 8 ft.

PHELLODENDRON amurense
200 1 to 1½-in. cal.
300 1½ to 1½-in. cal.
300 1½ to 2 -in. cal.

SALIX matsudana tortuosa
1000 4 to 5 ft.
1000 5 to 6 ft.

ACANTHOPANAX sieboldianus
600 2 to 3 ft.
200 3 to 4 ft.

BERBERIS thunbergi
1000 1½ to 2 ft.
600 2 to 2½ ft.
150 2½ to 3 ft.

BERBERIS thunbergi atropurpurea
600 15 to 18 ins.
900 1½ to 2 ft.
300 2 to 2½ ft.
100 2½ to 3 ft.

BERBERIS thunbergi Crimson Pygmy
300 6 to 9 ins., gallon cans

BUDDLEIA 2-yr., No. 1
400 Charming, pink
1100 Dubonnet, wine-purple, large spikes
200 Snowbank, best white

CHAENOMELES lagenaria
500 12 to 18 ins.
600 1½ to 2 ft.
300 2 to 2½ ft.

CHAENOMELES lagenaria rubra
500 1½ to 2 ft.
1200 2 to 3 ft.

CHIONANTHUS virginicus
200 2 to 3 ft.
200 3 to 4 ft.

CORNUS alba elegantissima
300 12 to 18 ins.
500 1½ to 2 ft.
200 2 to 3 ft.

CORNUS alba siberica
500 3 to 4 ft.
1500 4 to 5 ft.

CORNUS racemosa
600 12 to 18 ins.
800 1½ to 2 ft.

CORNUS stolonifera
1200 3 to 4 ft.
700 4 to 5 ft.

DEUTZIA gracilis rosea
150 12 to 15 ins.
200 15 to 18 ins.
400 1½ to 2 ft.
150 2 to 2½ ft.

DEUTZIA lemoinei
200 1½ to 2 ft.
200 2 to 2½ ft.
150 2½ to 3 ft.

EUONYMUS europaeus Aldenhamensis
150 1½ to 2 ft.

FORSYTHIA Arnold Dwarf
400 15 to 18 ins.
800 1½ to 2 ft.
800 2 to 2½ ft.
100 2½ to 3 ft.

FORSYTHIA intermedia spectabilis
700 1½ to 2 ft.
1300 2 to 3 ft.
700 3 to 4 ft.

FORSYTHIA Lynwood Gold
200 1½ to 2 ft.
200 2 to 3 ft.
100 3 to 4 ft.

FORSYTHIA Spring Glory
600 1½ to 2 ft.
800 2 to 3 ft.

HYDRANGEA macrophylla Nikko Blue
350 2-yr., medium
2000 2-yr., No. 1
600 3-yr., extra heavy

HYPERICUM Hildcote
500 12 to 18 ins.
900 1½ to 2 ft.
600 2 to 2½ ft.

HYPERICUM kalmianum
300 1½ to 2 ft.
300 2 to 2½ ft.

LIGUSTRUM obtusifolium erectum
500 12 to 18 ins.
1100 2 to 3 ft., 4 canes and up

LIGUSTRUM obtusifolium regelianum
1000 2½ to 3 ft. spread
700 3 to 3½ ft. spread

LONICERA amoena arnoldiana
100 18 to 24 ins.
250 2 to 3 ft.
450 3 to 4 ft.
150 4 to 5 ft.

LONICERA tatarica grandiflora
250 12 to 18 ins.
400 1½ to 2 ft.
700 2 to 3 ft.
1200 3 to 4 ft.
350 4 to 5 ft.

LONICERA tatarica Arnold Red
150 2 to 3 ft.

LONICERA tatarica Carleton
200 1½ to 2 ft.
400 2 to 3 ft.
600 3 to 4 ft.

LONICERA zabeli
200 12 to 18 ins.
400 1½ to 2 ft.
700 2 to 3 ft.
500 3 to 4 ft.

PHILADELPHUS coronarius
450 12 to 18 ins.
900 1½ to 2 ft.
900 2 to 3 ft.

PHILADELPHUS virginialis Virginal
400 1½ to 2 ft.
200 2 to 3 ft.

POTENTILLA farreri (Gold Drop)
100 2-yr., medium
350 2-yr., No. 1

RHODOTYPOS scandens
500 2 to 3 ft.
500 3 to 4 ft.

RHUS aromatica
1500 15 to 18 ins.
500 1½ to 2 ft.

ROSA multiflora
4000 1½ to 2 ft.
2000 2 to 3 ft.

ROSA rugosa
2000 12 to 18 ins.
2000 1½ to 2 ft.

ROSA setigera
800 1½ to 2 ft.
900 2 to 3 ft.

SALIX purpurea nana
2000 12 to 18 ins.
300 2 to 3 ft.

EVERBLOOMING PINK SPIRAEA
(Spiraea macrothyrsa)
200 12 to 18 ins.
600 1½ to 2 ft.

SYMPHORICARPOS chenaultii
200 1½ to 2 ft.
1400 2 to 3 ft.
400 3 to 4 ft.

SYMPHORICARPOS chenaultii Hancock
1000 12 to 18 ins., spread
600 1½ to 2-ft. spread
800 2 to 3-ft. spread

SYRINGA chinensis
250 2 to 3 ft.
300 3 to 4 ft.

SYRINGA microphylla
200 1½ to 2 ft.
150 2 to 3 ft.

VIBURNUM dentatum
500 1½ to 2 ft.
300 2 to 3 ft.
400 3 to 4 ft.

VIBURNUM lentago
600 2 to 3 ft.
100 3 to 4 ft.

VIBURNUM opulus nanum
300 9 to 12 ins.
300 12 to 15 ins.

WEIGELA florida (rosea)
150 2 to 3 ft.
700 3 to 4 ft.
300 4 to 5 ft.

WEIGELA Boskoop Glory
140 1½ to 2 ft.
200 2 to 3 ft.
100 3 to 4 ft.
50 4 to 5 ft.

WEIGELA Bristol Ruby
100 4 to 5 ft.

WEIGELA Fairy
200 1½ to 2 ft.
190 2 to 3 ft.

CHAMAECYPARIS plumosa compacta aurea
250 15 to 18-in. spread
300 1½ to 2-ft. spread

THUJA occidentalis pyramidalis
500 5 to 6 ft.

THUJA occidentalis, Woodward
300 12 to 15 ins.
800 15 to 18 ins.

ILEX crenata rotundifolia
400 15 to 18 ins.
600 1½ to 2 ft.
600 2 to 2½ ft.
100 2½ to 3 ft.

PIERIS japonica
300 15 to 20 ins., gallon cans

PYRACANTHA coccinea, Laland
500 8 to 12 ins., gallon cans

TEUCCRIUM chamaedrys
2000 1-yr., field-grown
500 2-yr., field-grown

CAMPISIS (Bignonia) radicans
400 2-yr., medium
800 2-yr., No. 1

CELASTRUS orbiculatus
2000 2-yr., medium
8000 2-yr., No. 1
600 3-yr., heavy

CELASTRUS orbiculatus, heavy fruiting strain
500 2-yr., medium
600 2-yr., No. 1
100 3-yr., No. 1

CELASTRUS scandens
600 2-yr., medium
2000 2-yr., No. 1

HYDRANGEA petiolaris
300 15 to 20 ins., heavy br., gallon cans

LONICERA Gold Flame
200 2-yr., medium
500 2-yr., No. 1

PARTHENOCISSUS quinquefolia
800 2-yr., No. 1

POLYGONUM, dwarf reynoutria, 10 to 12 ins.
2000 Field-grown

You are cordially invited to visit our nursery and offices at 2000 W. Jackson St., Painesville, Ohio, or our modern 800-acre mechanized nursery at Circleville, Ohio.

Write us for complete information on Cole's nationally advertised, patented Honey Locusts and the new TALL-HEDGE Buckthorn. Ask for our spring, 1960, trade list.

OHIO'S LARGEST WHOLESALE NURSERY

THE **COLE** NURSERY CO.
PAINESVILLE, OHIO

**Your Nursery can profit from
Cole's National Advertising of the
unique, fast-selling**

SUNBURST*



COLE HELPS YOU MAKE MONEY by selling your customers through sales-producing advertising and publicity in national home and gardening magazines. Nursery and garden store owners everywhere find these advertised brands easier and more profitable to sell. Be ready to meet the demand when your customers ask for them by name.

COLE HELPS YOU SELL with free newspaper mats and low-cost electros for your local tie-in advertising. Full color, four page folders and other selling helps are supplied at cost. Ask for our sales aid bulletin.

Spectacular SUNBURST

*(Plant Patent No. 1313)

The sensational, new two-color tree with brilliant yellow foliage on branch tips. It appears to burst with bloom all summer long.

Stock these patented Cole specialties for 1960 profits



Cole's New IMPERIAL

(Plant Patent No. 1605)

The graceful, spreading, new Honeylocust that grows strong and straight *without staking*. A favorite of landscape men and tree experts.



Cole's new SKYLINE

(Plant Patent No. 1619)

Distinctive, stately variety with strong trunk and shapely crown. *Needs no staking*. Dark green foliage has heavy, leathery texture.



Cole's New MAJESTIC

(Plant Patent No. 1534)

A clean, graceful, symmetrically-branched tree. Produces a straight, sturdy trunk and compact crown *without staking or special trimming*.



Cole's New TALLHEDGE

(Plant Patent No. 1388)

A thornless, glossy Columnar Buckthorn that grows to 12 feet. Ideal for tall, narrow, dense hedges or screens. Bears colorful berries.



Cole assures you a dependable supply of 360 varieties of ornamental and shade trees, evergreens, deciduous shrubs and hard-to-find items. The high quality of Cole nursery stock is the result of three-quarters of a century of experience. Our modern, mechanized methods, ideal soil conditions and large-scale operations produce better plants at lower cost. We can fill your order promptly in large or small quantity. You can be sure of getting healthy, sturdy plants with more compact, uninjured root systems when you order from Cole. Send for our new catalog today.

**LARGE QUANTITIES
360 VARIETIES
WRITE FOR CATALOG**

THE COLE NURSERY CO.
PAINESVILLE, OHIO

**OHIO'S LARGEST
WHOLESALE NURSERY
ESTABLISHED 1881**

*20 MILLION TREES A YEAR! *NOW OVER 35 MILLION!

MUSSER TREES BUILD SATISFIED CUSTOMERS —

Because of—Selected Seed, Good Heredity Characteristics, Scientific Methods of Planting and Propagation, Heavy Roots, Sturdy Tops and Rapid Growth—Musser Trees grow and thrive where others may fail to survive.

MUSSER TREES Grow Best!



Good Tree Stock Pays Dividends

Musser Forests takes pride in supplying vigorous, high-quality nursery stock. To keep abreast with increasing costs of production the most modern equipment is used. Experienced personnel are employed, many with over 20 years' service. . . . Our production has increased year after year to keep pace with the ever-increasing demand for Musser trees.

OUR TREMENDOUS VOLUME ENABLES US TO SAVE YOU MONEY

- | <p>● SPECIAL STRAIN SCOTCH PINE
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.</p> <table border="0"> <thead> <tr> <th></th> <th>Per 100</th> <th>Per 1000</th> </tr> </thead> <tbody> <tr> <td>2-yr., S., 4 to 8 ins.</td> <td>\$ 6.00</td> <td>\$ 30.00</td> </tr> <tr> <td>3-yr., S., 8 to 16 ins.</td> <td>9.00</td> <td>45.00</td> </tr> <tr> <td>4-yr., T., 8 to 14 ins.</td> <td>20.00</td> <td>100.00</td> </tr> </tbody> </table> | | Per 100 | Per 1000 | 2-yr., S., 4 to 8 ins. | \$ 6.00 | \$ 30.00 | 3-yr., S., 8 to 16 ins. | 9.00 | 45.00 | 4-yr., T., 8 to 14 ins. | 20.00 | 100.00 | <p>● JAPANESE YEW—Grown from seed
<i>Taxus cuspidata capitata—upright pyramidal</i></p> <table border="0"> <thead> <tr> <th></th> <th>Per 100</th> <th>Per 1000</th> </tr> </thead> <tbody> <tr> <td>3-yr., S., 8 to 12 ins.</td> <td>\$30.00</td> <td>\$200.00</td> </tr> <tr> <td>4-yr., T., 6 to 10 ins.</td> <td>40.00</td> <td>300.00</td> </tr> </tbody> </table> | | Per 100 | Per 1000 | 3-yr., S., 8 to 12 ins. | \$30.00 | \$200.00 | 4-yr., T., 6 to 10 ins. | 40.00 | 300.00 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|----------|------------------------------|---------|----------|------------------------------|-------|--------|
| | Per 100 | Per 1000 | | | | | | | | | | | | | | | | | | | | |
| 2-yr., S., 4 to 8 ins. | \$ 6.00 | \$ 30.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., S., 8 to 16 ins. | 9.00 | 45.00 | | | | | | | | | | | | | | | | | | | | |
| 4-yr., T., 8 to 14 ins. | 20.00 | 100.00 | | | | | | | | | | | | | | | | | | | | |
| | Per 100 | Per 1000 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., S., 8 to 12 ins. | \$30.00 | \$200.00 | | | | | | | | | | | | | | | | | | | | |
| 4-yr., T., 6 to 10 ins. | 40.00 | 300.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● MUGHO PINE</p> <table border="0"> <tbody> <tr> <td>3-yr., S., 2 to 4 ins.</td> <td>7.00</td> <td>35.00</td> </tr> <tr> <td>4-yr., T., 3 to 5 ins.</td> <td>15.00</td> <td>75.00</td> </tr> </tbody> </table> | 3-yr., S., 2 to 4 ins. | 7.00 | 35.00 | 4-yr., T., 3 to 5 ins. | 15.00 | 75.00 | <p>● JAPANESE YEW—Transplanted rooted cuttings
<i>Taxus cuspidata—spreading</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 5 to 6 ins.</td> <td>25.00</td> <td>175.00</td> </tr> <tr> <td>2-yr., T., 6 to 8 ins.</td> <td>35.00</td> <td>250.00</td> </tr> <tr> <td>3-yr., T., 8 to 12 ins.</td> <td>45.00</td> <td>350.00</td> </tr> </tbody> </table> | 1-yr., T., 5 to 6 ins. | 25.00 | 175.00 | 2-yr., T., 6 to 8 ins. | 35.00 | 250.00 | 3-yr., T., 8 to 12 ins. | 45.00 | 350.00 | | | | | | |
| 3-yr., S., 2 to 4 ins. | 7.00 | 35.00 | | | | | | | | | | | | | | | | | | | | |
| 4-yr., T., 3 to 5 ins. | 15.00 | 75.00 | | | | | | | | | | | | | | | | | | | | |
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| 2-yr., T., 6 to 8 ins. | 35.00 | 250.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., T., 8 to 12 ins. | 45.00 | 350.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● AUSTRIAN PINE</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 3 to 6 ins.</td> <td>5.00</td> <td>25.00</td> </tr> <tr> <td>3-yr., S., 8 to 14 ins.</td> <td>8.00</td> <td>40.00</td> </tr> </tbody> </table> | 2-yr., S., 3 to 6 ins. | 5.00 | 25.00 | 3-yr., S., 8 to 14 ins. | 8.00 | 40.00 | <p><i>Taxus hicksii—upright</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 5 to 7 ins.</td> <td>25.00</td> <td>175.00</td> </tr> <tr> <td>2-yr., T., 8 to 10 ins.</td> <td>40.00</td> <td>300.00</td> </tr> </tbody> </table> | 1-yr., T., 5 to 7 ins. | 25.00 | 175.00 | 2-yr., T., 8 to 10 ins. | 40.00 | 300.00 | | | | | | | | | |
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| 2-yr., T., 8 to 10 ins. | 40.00 | 300.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● BLACK HILLS SPRUCE</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 5 to 10 ins.</td> <td>7.00</td> <td>35.00</td> </tr> <tr> <td>4-yr., S., 8 to 12 ins.</td> <td>10.00</td> <td>50.00</td> </tr> <tr> <td>4-yr., T., 4 to 8 ins.</td> <td>15.00</td> <td>75.00</td> </tr> </tbody> </table> | 2-yr., S., 5 to 10 ins. | 7.00 | 35.00 | 4-yr., S., 8 to 12 ins. | 10.00 | 50.00 | 4-yr., T., 4 to 8 ins. | 15.00 | 75.00 | <p><i>Taxus brownii—upright</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 4 to 6 ins.</td> <td>25.00</td> <td>175.00</td> </tr> <tr> <td>2-yr., T., 6 to 8 ins.</td> <td>40.00</td> <td>300.00</td> </tr> </tbody> </table> | 1-yr., T., 4 to 6 ins. | 25.00 | 175.00 | 2-yr., T., 6 to 8 ins. | 40.00 | 300.00 | | | | | | |
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| 4-yr., T., 4 to 8 ins. | 15.00 | 75.00 | | | | | | | | | | | | | | | | | | | | |
| 1-yr., T., 4 to 6 ins. | 25.00 | 175.00 | | | | | | | | | | | | | | | | | | | | |
| 2-yr., T., 6 to 8 ins. | 40.00 | 300.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● NORWAY SPRUCE—Fast-growing</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 5 to 10 ins.</td> <td>7.00</td> <td>35.00</td> </tr> <tr> <td>3-yr., S., 10 to 15 ins.</td> <td>10.00</td> <td>50.00</td> </tr> <tr> <td>3-yr., T., 5 to 10 ins.</td> <td>15.00</td> <td>75.00</td> </tr> <tr> <td>5-yr., T., 12 to 18 ins.</td> <td>25.00</td> <td>125.00</td> </tr> </tbody> </table> | 2-yr., S., 5 to 10 ins. | 7.00 | 35.00 | 3-yr., S., 10 to 15 ins. | 10.00 | 50.00 | 3-yr., T., 5 to 10 ins. | 15.00 | 75.00 | 5-yr., T., 12 to 18 ins. | 25.00 | 125.00 | <p><i>Taxus cuspidata capitata—Upright Tip cuttings</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 4 to 6 ins.</td> <td>25.00</td> <td>....</td> </tr> </tbody> </table> | 1-yr., T., 4 to 6 ins. | 25.00 | | | | | | | |
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| 3-yr., S., 10 to 15 ins. | 10.00 | 50.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., T., 5 to 10 ins. | 15.00 | 75.00 | | | | | | | | | | | | | | | | | | | | |
| 5-yr., T., 12 to 18 ins. | 25.00 | 125.00 | | | | | | | | | | | | | | | | | | | | |
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| <p>● WHITE SPRUCE</p> <table border="0"> <tbody> <tr> <td>3-yr., S., 8 to 12 ins.</td> <td>8.00</td> <td>40.00</td> </tr> <tr> <td>4-yr., T., 6 to 12 ins.</td> <td>15.00</td> <td>75.00</td> </tr> </tbody> </table> | 3-yr., S., 8 to 12 ins. | 8.00 | 40.00 | 4-yr., T., 6 to 12 ins. | 15.00 | 75.00 | <p><i>Taxus intermedia—spreading</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 4 to 6 ins.</td> <td>25.00</td> <td>175.00</td> </tr> <tr> <td>2-yr., T., 6 to 8 ins.</td> <td>35.00</td> <td>....</td> </tr> </tbody> </table> | 1-yr., T., 4 to 6 ins. | 25.00 | 175.00 | 2-yr., T., 6 to 8 ins. | 35.00 | | | | | | | | | | |
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| 2-yr., T., 6 to 8 ins. | 35.00 | | | | | | | | | | | | | | | | | | | | | |
| <p>● COLORADO BLUE SPRUCE</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 6 to 12 ins.</td> <td>11.00</td> <td>55.00</td> </tr> <tr> <td>4-yr., T., 4 to 8 ins.</td> <td>18.00</td> <td>90.00</td> </tr> </tbody> </table> | 2-yr., S., 6 to 12 ins. | 11.00 | 55.00 | 4-yr., T., 4 to 8 ins. | 18.00 | 90.00 | <p>● JUNIPER—Blue Pfitzer—Chinensis heteri</p> <table border="0"> <tbody> <tr> <td>1-yr., T., 5 to 7 ins.</td> <td>25.00</td> <td>200.00</td> </tr> </tbody> </table> | 1-yr., T., 5 to 7 ins. | 25.00 | 200.00 | | | | | | | | | | | | |
| 2-yr., S., 6 to 12 ins. | 11.00 | 55.00 | | | | | | | | | | | | | | | | | | | | |
| 4-yr., T., 4 to 8 ins. | 18.00 | 90.00 | | | | | | | | | | | | | | | | | | | | |
| 1-yr., T., 5 to 7 ins. | 25.00 | 200.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● DOUGLAS FIR</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 4 to 8 ins.</td> <td>5.00</td> <td>25.00</td> </tr> <tr> <td>3-yr., S., 8 to 12 ins.</td> <td>11.00</td> <td>55.00</td> </tr> </tbody> </table> | 2-yr., S., 4 to 8 ins. | 5.00 | 25.00 | 3-yr., S., 8 to 12 ins. | 11.00 | 55.00 | <p>● GLOBE ARBORVITAE
<i>Woodwardi—dark green</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 4 to 6 ins.</td> <td>30.00</td> <td>250.00</td> </tr> </tbody> </table> | 1-yr., T., 4 to 6 ins. | 30.00 | 250.00 | | | | | | | | | | | | |
| 2-yr., S., 4 to 8 ins. | 5.00 | 25.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., S., 8 to 12 ins. | 11.00 | 55.00 | | | | | | | | | | | | | | | | | | | | |
| 1-yr., T., 4 to 6 ins. | 30.00 | 250.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● AMERICAN ARBORVITAE</p> <table border="0"> <tbody> <tr> <td>3-yr., S., 8 to 12 ins.</td> <td>8.00</td> <td>40.00</td> </tr> </tbody> </table> | 3-yr., S., 8 to 12 ins. | 8.00 | 40.00 | <p><i>Moey's—green</i></p> <table border="0"> <tbody> <tr> <td>1-yr., T., 4 to 6 ins.</td> <td>25.00</td> <td>200.00</td> </tr> </tbody> </table> | 1-yr., T., 4 to 6 ins. | 25.00 | 200.00 | | | | | | | | | | | | | | | |
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| 1-yr., T., 4 to 6 ins. | 25.00 | 200.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● CANADIAN HEMLOCK</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 3 to 6 ins.</td> <td>9.00</td> <td>45.00</td> </tr> <tr> <td>3-yr., S., 8 to 12 ins.</td> <td>16.00</td> <td>80.00</td> </tr> <tr> <td>3-yr., T., 8 to 12 ins.</td> <td>20.00</td> <td>100.00</td> </tr> </tbody> </table> | 2-yr., S., 3 to 6 ins. | 9.00 | 45.00 | 3-yr., S., 8 to 12 ins. | 16.00 | 80.00 | 3-yr., T., 8 to 12 ins. | 20.00 | 100.00 | <p>● PYRAMIDAL ARBORVITAE—Compacta</p> <table border="0"> <tbody> <tr> <td>1-yr., T., 5 to 7 ins.</td> <td>35.00</td> <td>300.00</td> </tr> </tbody> </table> | 1-yr., T., 5 to 7 ins. | 35.00 | 300.00 | | | | | | | | | |
| 2-yr., S., 3 to 6 ins. | 9.00 | 45.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., S., 8 to 12 ins. | 16.00 | 80.00 | | | | | | | | | | | | | | | | | | | | |
| 3-yr., T., 8 to 12 ins. | 20.00 | 100.00 | | | | | | | | | | | | | | | | | | | | |
| 1-yr., T., 5 to 7 ins. | 35.00 | 300.00 | | | | | | | | | | | | | | | | | | | | |
| <p>● CONCOLOR FIR</p> <table border="0"> <tbody> <tr> <td>2-yr., S., 4 to 8 ins.</td> <td>7.00</td> <td>35.00</td> </tr> </tbody> </table> | 2-yr., S., 4 to 8 ins. | 7.00 | 35.00 | <p>● JAPANESE HOLLY
<i>Ilex rotundifolia</i></p> <p>*4-yr., T.T., 12 to 15-in. spread, \$2.00 each
*Sold in lots 5 or more.</p> | | | | | | | | | | | | | | | | | | |
| 2-yr., S., 4 to 8 ins. | 7.00 | 35.00 | | | | | | | | | | | | | | | | | | | | |
| | <p>● NORWAY MAPLE</p> <table border="0"> <tbody> <tr> <td>Seedlings, 10 to 16 ins.</td> <td>10.00</td> <td>50.00</td> </tr> </tbody> </table> | Seedlings, 10 to 16 ins. | 10.00 | 50.00 | | | | | | | | | | | | | | | | | | |
| Seedlings, 10 to 16 ins. | 10.00 | 50.00 | | | | | | | | | | | | | | | | | | | | |
| | <p>● WHITE DOGWOOD</p> <table border="0"> <tbody> <tr> <td>Seedlings, 18 to 24 ins.</td> <td>16.00</td> <td>80.00</td> </tr> </tbody> </table> | Seedlings, 18 to 24 ins. | 16.00 | 80.00 | | | | | | | | | | | | | | | | | | |
| Seedlings, 18 to 24 ins. | 16.00 | 80.00 | | | | | | | | | | | | | | | | | | | | |

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HOPKINS 5-5686

Many Other Evergreen Items—Rhododendrons and Azaleas

— All stock is carefully graded and packed —

No charge for packing and boxing. Our cold storage permits late shipment.
SEND FOR COMPLETE CATALOG AND WHOLESALE PLANTING LIST — also famous CHRISTMAS TREE GROWERS' GUIDE.

MUSSER FORESTS

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INDIANA, PENNA.

OBITUARY

William H. Norman

William H. Norman, 80, founder of Norman's Nursery & Flower Shop, Phoenix, Ariz., died January 28 in a Phoenix rest home. He retired six years ago, when the management of his business went to his son, William H., Jr. A native of Dallas, Tex., Mr. Norman went to Phoenix 44 years ago, starting his career in that city as a landscape gardener at the Phoenix Indian school. In 1920 he landscaped the town site at Litchfield Park, Ariz., and was later a landscape gardener at the Phoenix Country Club.

In 1928 Mr. Norman opened his first nursery at Phoenix. He later owned four other nursery businesses at Phoenix and established one branch at Flagstaff, Ariz. He was a member of the American Association of Nurserymen and of the Arizona Association of Nurserymen. He is survived by his widow, Nina; a daughter, and three sons.

Frederick T. Burke

Frederick T. Burke, 77, a former nurseryman and past president of the New York State Nurserymen's Association, died January 24 after several months' illness. Mr. Burke, a native of Rochester, N. Y., was a company supervisor of the John Hancock Mutual Life Insurance Co., Rochester, when he retired in 1952.

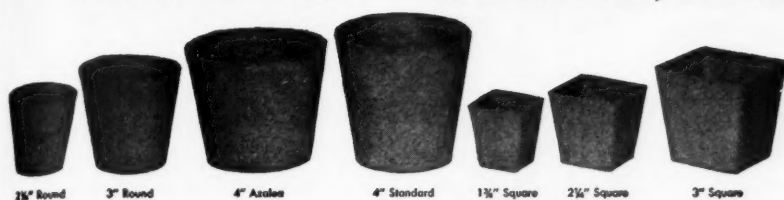
Until 1924, Mr. Burke was associated with the Geneva Nursery Co., Geneva, N. Y., being the firm's vice-president and treasurer at the time he left the company to go into business at Rochester with a partner, Arthur T. Purtell. When the partnership was dissolved several years later, Mr. Burke was appointed Monroe county parks commission secretary, a post he held until 1939, when he joined the insurance firm.

Mr. Burke was a member of the Rochester chamber of commerce, the Rotary Club, the United Commercial Travelers and the Rochester Retail Credit Men's Association. He is survived by his widow, Bessie; two daughters, and three sisters.

Edward W. Higgins

Edward W. Higgins, 68, president of Frost & Higgins Co., Arlington, Mass., died January 29. He was one of the founders of the National Arborist Association and a member of Hiram lodge of Masons at Arlington. He is survived by his widow, Martha; two daughters, Mrs. Bar-

VAL-PEAT POTS® — THE BETTER, STURDIER PEAT POT



PREPAID SHIPMENT

ON VAL-PEAT POT ORDERS OF 150 LBS. OR MORE ANYWHERE IN THE UNITED STATES (except Hawaii and Alaska). Shipped in original unbroken cartons only.

Val-peat Pots reduce transplanting shock and save time and labor for you. And because they are American-made of the best long-fibered peat moss, they are better and sturdier with a built-in durability that cuts handling losses. Wide bases practically eliminate tip-over trouble, too . . . saves plants and labor.

Pre-sterilized and containing proper amounts of nutrients, Val-peat Pots help you grow earlier-maturing, stronger,

larger stock. You'll get premium prices from contented customers who will find planting a lot easier too. You get full measure with Val-peat Pots, yet their cost is low. Compare their all-important inside top measurement. Val 2 1/2-in. Square Peat Pots hold 42 per cent more soil than ordinary brands with the same stated sizes. Full dimensional, accurate sizes are available for every growing need . . . vegetables, bedding plants, nursery stock, foliage plants.

VAL-PEAT POTS—ROUND SIZES

Inside Top Dimension of Pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428 1 1/2-in. Diameter Square	2,500 to 17,500 20,000 to 70,000 72,500 and over	2500	28 lbs.	\$ 6.90 6.40 5.90
S-1428F 2 1/2-in. Diameter Square	2,000 to 18,000 20,000 to 74,000 76,000 and over	2000	39 lbs.	10.50 9.75 9.00
S-1428D 3-in. Diameter Square	1,000 to 9,000 10,000 to 49,000 50,000 and over	1000	33 lbs.	17.25 16.00 14.75

VAL-PEAT POTS—SQUARE SIZES

Inside Top Dimension of Pot	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
S-1428A 2 1/4-in. Diameter Round	2,000 to 18,000 20,000 to 74,000 76,000 and over	2000	28 lbs.	\$ 7.75 7.25 6.75
S-1428B 3-in. Diameter Round	1,000 to 9,000 10,000 to 49,000 50,000 and over	1000	27 lbs.	13.75 12.75 11.50
S-1428C 4-in. Diameter Round	500 to 2,000 2,500 to 10,000 11,000 and over	500	33 lbs.	28.75 26.25 24.75
S-1428E 4-in. Round Azalea	500 to 2,000 2,500 to 9,600 10,000 and over	500	30 lbs.	26.75 26.25 24.75

LIGHTWEIGHT PEAT POTS—ROUND AND SQUARE

For some growing purposes, these lighter weight pots are preferred.

No. 10 Square	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
2 1/4-in.	2,500 to 17,500	2500	35 lbs.	\$ 7.50
No. 10	20,000 to 72,500 75,000 and over			7.00 6.50
3-in.	1,000 to 9,000	1200	32 lbs.	14.50
No. 10	10,000 to 49,000 50,000 and over			13.25 12.00

No. 10 Round	Quantity	Number Pots per Carton	Approx. Wt. of Carton	Price per 1000
2 1/4-in.	2,500 to 17,500	2500	29 lbs.	\$ 7.00
No. 10	20,000 to 72,500 75,000 and over			6.50 6.00
3-in.	1,250 to 10,000	1250	25 lbs.	13.00
No. 10	11,250 to 50,000 51,250 and over			12.00 10.75

NURSERYMEN, GARDEN CENTERS, FLORISTS, LANDSCAPE MEN—Send for Vaughan's "BOOK FOR FLORISTS AND GROWERS."



Pot Label

WOOD POT LABELS. The best quality wooden labels made. They are smooth, strong and neat, 1/2 in. wide. When ordering specify pot labels or garden stakes, painted or plain. In lots of 10,000 less 5%.

	Packed to Carton	5-1507 Plain Per 1000	5-1508 Painted Per 1000
4-in.	1000	\$3.10	\$3.80
5-in.	1000	3.30	4.10
6-in.	1000	3.60	4.50
8-in.	500	5.30	6.60
10-in.	500	6.30	7.70
12-in.	500	7.50	9.10

	Packed to Carton	5-1509 Plain Per 1000	5-1510 Painted Per 1000
8-in.—7/8 in. wide	250	\$ 7.70	\$ 9.00
10-in.—7/8 in. wide	250	8.70	10.00
12-in.—1 1/8 ins. wide	100	15.50	18.00

WOOD TREE LABELS COPPER WIRED. 3 1/2 ins. by 5/8 in. Per 1000, 5-1542 plain, \$3.60; 5000 to 10,000, \$3.55; 5-1541 painted, per 1000, \$4.50; 5000 to 10,000, per 1000, \$4.45.



WEATHERPROOF PENCILS. Black lead. Ideal for marking pot labels, garden stakes or other outdoor work. Cat. No. Packed Wt. Dealers' Cost Retail

5-1520	12	1 1/2 lb.	\$1.00	\$0.15
	36	1 1/2 lb.	2.70	.15
	144	2 lbs.	9.00	.15



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Total of 400 or more pots takes 1000 rate. We Do Not Break Cartons. \$11407 F.O.B. Chicago

SIZES FOR EVERY NEED

Roses, Perennials, Shrubs and Young Trees
Lasts a full year or more in the sales frame. Contains roots safely within the soil ball; permits transplanting any time.
Has adequate bottom opening for good drainage without waterlogging; no gravel necessary.
Rests on wide bottom; no blowing over in the frames.

Std. No.	Top Dia.	Height	Quantity	Per 1000	Per 5000	Per 10000
No. 0	5-in.	5 1/2-in.	200	210 lbs.	\$10.50	\$47.50
No. 1	6-in.	6 1/2-in.	100	331 lbs.	6.50	56.00
No. 2	7-in.	7 1/2-in.	100	520 lbs.	7.25	65.00
No. 3	8-in.	9-in.	100	550 lbs.	8.10	70.00
No. 4	12-in.	13-in.	Per 100	130 lbs.	Carton of 25	

\$8.50; 100 for \$29.25; 1000 for \$275.00.

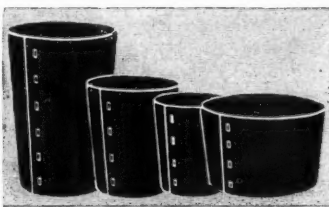
STAPLED WOOD VENEER PLANT BANDS

5-1504. Used by the largest growers for vegetable plants, perennial plants, carnations, snaps and stocks. For transplanting in greenhouse or outdoors.

F.O.B. CHICAGO



	1000 to 49,000	49,000 to 99,000	99,000 to 149,000	With more Bottoms
1 1/2 x 1 1/2 x 2 1/2	\$ 6.25	\$ 6.75	\$ 6.65	\$10.05
2 x 2 x 2 1/2	7.05	6.95	6.85	10.75
2 1/2 x 2 1/2 x 2 1/2	7.45	7.35	7.25	11.15
3 x 3 x 3	7.65	7.55	7.45	11.40
3 1/2 x 3 1/2 x 3	8.20	8.10	8.00	12.50
3 x 3 x 3	8.90	8.80	8.70	12.95
3 x 3 x 4	9.95	9.85	9.75	13.50
4 x 4 x 4	10.60	10.50	10.40	15.40



S-1439 BIRD PERENNIAL POTS

Now you can pot your plants for display and sale for five months instead of three. This pot stands up under extreme handling hazards. Constructed of amazingly durable material. Has a solid stapled bottom for guaranteed handling safety. Rugged yet lightweight; durable yet inexpensive. Completely assembled! Bottom openings for drainage. 5x8-in. size is a mum pan.

Sold in original cartons only. Total of 600 pots or more takes 100 rate. F.O.B. Chicago.

Height	Top Dia.	Bottom Dia.	Weight per 1000	Per case of 200	Per 1000
5-in.	8-in.	7-in.	325 lbs.	\$14.00	\$65.00
5 1/2-in.	5-in.	4-in.	165 lbs.	10.50	47.50
6 1/2-in.	6-in.	4 1/2-in.	220 lbs.	13.00	58.50
9 1/2-in.	7-in.	5 1/2-in.	355 lbs.	14.80	69.00

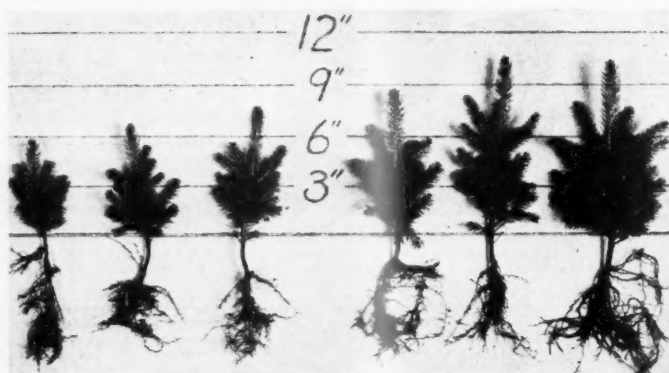
CHICAGO 6
601-609 W. Jackson Blvd.
Phone: Franklin 2-7560

Vaughan's Seed Co.
THE FLOWER SEED HOUSE OF AMERICA

NEW YORK 13
85 White St.
Phone: Barclay 7-4900

SEEDLINGS AND LINERS

SPRING, 1960

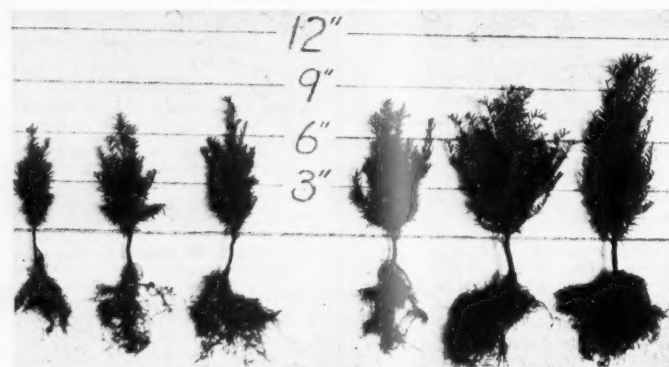


COLORADO BLUE SPRUCE, 6 to 10 ins., X

	Per 100	Per 1000	Per 1000 10,000 or more
Taxus cuspidata capitata (Upright Yew), seed grown			
8 to 12 ins., XX.....	\$85.00		
6 to 10 ins., X.....	42.50	\$275.00	\$250.00
4 to 6 ins., X.....	26.00	190.00	175.00
Colorado Blue Spruce			
(2-2), 6 to 10 ins.....	18.00	150.00	135.00
(3-1), 6 to 10 ins.....	14.00	75.00	
(3-0), 6 to 12 ins.....	10.00	45.00	42.50
* (2-0), 3 to 6 ins.....	7.50	28.00	24.00
White Spruce			
(3-1), 6 to 10 ins.....	12.00	70.00	
(3-0), 4 to 8 ins.....	8.00	45.00	42.50
* (2-0), 3 to 8 ins.....	7.50	26.00	22.00
Norway Spruce			
(3-1), 6 to 14 ins.....	12.00	65.00	
* (3-0), 6 to 12 ins.....	8.00	40.00	37.50
Black Hills Spruce			
(3-0), 4 to 8 ins.....	8.00	40.00	37.50
Douglas Fir			
(2-2), 12 to 15 ins.....	28.00	220.00	
(2-2), 6 to 12 ins.....	22.00	180.00	
(2-0), 4 to 8 ins.....	7.50	28.00	26.00
White Pine			
(2-2), 5 to 10 ins.....	16.00	130.00	
Ponderosa Pine			
(2-2), 6 to 12 ins.....	10.00	60.00	
Mugho Pine, Tyrolean dwarf			
(2-2), 3 to 4 ins.....	22.00	160.00	150.00
Austrian Pine			
(2-2), 8 to 14 ins.....	12.00	85.00	
* (2-1), 3 to 8 ins.....	10.00	37.50	32.50
(3-0), 5 to 10 ins.....	10.00	28.00	24.00
* (2-0), 2 to 4 ins.....	6.00	18.00	16.00
Norway Pine			
(2-1), 3 to 6 ins.....	9.00	45.00	
Riga Scotch Pine (Poland)			
* (3-0), 12 to 16 ins.....	9.00	34.00	30.00
(3-0), 8 to 12 ins.....	7.50	26.00	22.00
(2-1), 3 to 8 ins.....	9.00	36.00	32.00
Scotch Pine, Auvergne			
French Blue			
* (2-0), 3 to 6 ins.....	7.50	22.00	18.00

On transplants only: 5000 order in one item takes 10,000 rate.
*Apply for price on 50,000 or more of one grade

Please send for illustrated list.



TAXUS CUSPIDATA CAPITATA, seed-grown, 6 to 10 ins., X

MATTHEWS NURSERY

Harbor Springs, Mich.

Telephones: 123, 124 or 732

bara Rae and Mrs. James Neff; a brother, Robert, and a sister, Miss Caroline Higgins. A. I. H.

George T. Goodhue

George T. Goodhue, for 15 years owner and operator of the Goodhue Gardens, Fresno, Calif., died February 4. He retired four years ago, but had since served as a part-time landscape supervisor for the city schools.

A native of Minnesota, he went to California 52 years ago and to Fresno in 1919. He was a past president of the San Joaquin Valley Nurserymen's Association, the San Joaquin Valley Rose Society and the East Fresno Exchange Club. He was also active in Masonry, was a member of the Fresno Camellia Society and was one of the founders of the Municipal Rose Garden in Roeding park.

Surviving are the widow, Jo Craig Goodhue; two brothers, Floyd and William Goodhue, and a sister, Mrs. Marjorie Kelly.

Charles V. Edwards

Charles V. Edwards, 74, owner and operator of the Edwards Nursery, Miamitown, O., for 25 years before his retirement last June, died January 22 at Dothan, Ala., while returning from a vacation at Nokomis, Fla. Mr. Edwards was a member of the Miamitown Church of Christ. He is survived by his widow, Dorothy; a son, Harold, and a daughter, Mrs. Barbara Joy Krause, all of Miamitown.

Mary Louise Nieman

Mary Louise Nieman, of the Nieman Nursery, Cincinnati, O., died January 20 at her farm at Hamilton, O., where she had lived for the past two years. A judge in many rose and other flower shows, Miss Nieman also gave lectures on plants and plantings and their care. She was especially interested in shade gardening and also devoted a part of the woods around her farm to the growing of an extensive collection of daffodils and wild flowers. She is survived by three sisters and two brothers.

E. W. Luke

E. W. Luke, of the Luke Nursery, Pauls Valley, Okla., took his own life after having shot and killed his estranged wife at their Oklahoma home January 23.

Carl Franklin

A foreman at Baker Bros. Nursery, Fort Worth, Tex., for 35 years, Carl Franklin, 67, died January 27 at Fort Worth. He specialized in the propagation of Biota aurea nana for [Concluded on page 34]

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MENNE-POTS

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MENNE-POTS COST LESS

Size 0 Top . . . 4" Bottom 3 1/2" High 4" Weight per 100 Reg. 10 lbs. Heavy 25 Regular Weight 100 \$2.75 1000 \$25.00 Heavy Weight 100 \$3.75 1000 \$35.00	Size 3 Top . . 8 1/4" Bottom 6 1/2" High 9" Weight per 100 Reg. 30 lbs. Heavy 70 Regular Weight 100 \$5.00 1000 \$47.50 Heavy Weight 100 \$6.25 1000 \$60.00
Size 0 1/2 Top . . . 5" Bottom 4" High 5" Weight per 100 Reg. 13 lbs. Heavy 30 Regular Weight 100 \$3.50 1000 \$32.50 Heavy Weight 100 \$4.50 1000 \$42.50	Size *4 Top . . . 10" Bottom 8" High 10" Weight per 100-120 lbs. 100 \$11.00 500 \$52.50 1000 \$100 *Heavy Only -- For trees and shrubs
Size 1 Top . . . 6" Bottom 5" High 6" Weight per 100 Reg. 15 lbs. Heavy 35 Regular Weight 100 \$4.00 1000 \$37.50 Heavy Weight 100 \$5.25 1000 \$50.00	Size *5 Top . . . 12" Bottom 10" High 12" LG POT Weight per 100-250 lbs. 20 30c ea. 100 \$27.50 500 \$125 1000 \$225 *For extra-heavy trees, large shrubs
Size 2 Top . . . 7" Bottom 5 1/2" High 9" Weight per 100 Reg. 24 lbs. Heavy 55 Regular Weight 100 \$4.50 1000 \$42.50 Heavy Weight 100 \$5.75 1000 \$55.00	Size Pan Top . . 8 1/4" Bottom 7 1/2" High 5" PAN Weight per 100 Reg. 30 lbs. Heavy 70 Regular Weight 100 \$5.00 1000 \$47.50 Heavy Weight 100 \$6.25 1000 \$60.00

SUPERIOR STRENGTH Rugged construction gives you a better pot! Withstands rough handling . . . will not break apart.

DRAINAGE Unique side drainage feature makes water-logging impossible . . . no worry while pot stands in yard!

LIGHT WEIGHT Easy to handle . . . economical. Light weight cuts shipping costs. Menne-Pots save you money!

COMPLETELY ASSEMBLED Stapled Bottom . . . a Menne-Pot can be used immediately! No waste "set-up" time. No heating.

Menne-Pots Help You Sell!

Customers prefer nursery stock in Menne-Pots because of handling ease and they can be carried in a car without dirt or muss. Menne-Pots are perfect for merchandising roses, shrubs, trees, annuals, perennials, etc. . . . in full flower . . . and all season!

With the Regular Menne-Pot there is no transplanting; plant pot and all! Roots penetrate walls and bottom. Plants can be re-dug with ease months later because of the compact root system.

*MENNE-POTS shipped F.O.B., North Tonawanda, N. Y.

MENNE PEAT POTS

**Low Cost - Light Weight - Pre-Sterilized
Compact - Plant Pot-and-All - Plants Grow Faster**

Once you use a MENNE PEAT POT you'll never buy anything else. These top-quality domestic made peat pots save you labor of transplanting to field or bench. No labor and time wasted in storing pots. MENNE PEAT POTS also eliminate transplant shock and promote faster, stronger growth. You're sure to get top prices and more satisfied customers. For bigger profits next season, order your MENNE PEAT POTS today!

SEND
FOR YOUR
SAMPLE SET
OF
MENNE-POTS
TODAY!

Distributorships open in Southern States

MENNE-POTS INC.

AN 3-1

NORTH TONAWANDA, N. Y.

Please send me complete sample set of Menne-Pots and Menne Peat Pots. I enclose \$1.50

Name

Address

City Zone State

MENNE-POTS INC.

NORTH TONAWANDA, N. Y. LUdlow 4444

(Prices vary slightly in areas serviced by distributors)

1 1/4" Square 2,500 to 17,500 \$6.90 M 20,000 to 72,500 6.40 M 75,000 and up 5.90 M 2,500 per case — 30 lb.	2 1/4" Round 2,000 to 18,000 \$7.75 M 20,000 to 74,000 7.25 M 76,000 and up 6.75 M 2,000 per case — 32 lb.
2 1/4" Square 2,000 to 18,000 \$10.50 M 20,000 to 74,000 9.75 M 76,000 and up 9.00 M 2,000 per case — 36 lb.	3" Round 1,000 to 9,000 \$13.75 M 10,000 to 49,000 12.75 M 50,000 and up 11.50 M 1,000 per case — 28 lb.
3" Square 1,000 to 9,000 \$17.25 M 10,000 to 49,000 16.00 M 50,000 and up 14.75 M 1,000 per case — 30 lb.	4" Round 500 to 2,000 \$28.75 M 2,500 to 9,500 26.25 M 10,000 and up 24.75 M 500 per case — 30 lb.
Freight Allowed On 150 Lbs. Or More Also available in the above size — THINLINE weight — 10 - 30 per cent less in price.	4" Azalea 500 to 2,000 \$28.75 M 2,500 to 9,500 26.25 M 10,000 and up 24.75 M 500 per case — 28 lb.

Cartwright Nursery Co.

We are having a wonderful growing season, and we have available for the 1960 season the largest stock of top evergreens that we have ever offered. We would be very happy to have you visit us at the nursery and see our stock in the fields. We are, at this time, using 2000 acres of good west Tennessee land to produce for you the very best in greens, and we think it would be worth your time to visit us if you are interested in the best stock available at reasonable prices.

JUNIPERS, UPRIGHT VARIETIES

All many times sheared, specimen-quality evergreens.

	Each	Each
	Per 10	Per 100
Juniper, virginiana glauca	\$3.75	\$3.50
3 to 4 ft.		
Juniper, virginiana burki	2.75	2.50
2 to 3 ft.		
Dundee Juniper	2.75	2.50
4 to 5 ft.	4.75	4.50
Juniper, chinensis densa glauca, excellent, compact, upright, blue-green color.		
4 to 5 ft.	3.75	3.50
Fastigiata Juniper (Improved Irish), very heavy.		
24 to 30 ins.	1.20	1.00
30 to 36 ins.	1.50	1.25
4 to 5 ft.	1.75	1.50
5 to 6 ft.	2.25	2.00
6 to 7 ft.	2.75	2.50
Greek Juniper (Juniper, excelsa stricta), well sheared		
15 to 18 ins.	1.35	1.20
18 to 24 ins.	1.75	1.50
30 to 36 ins.	3.00	2.75
Hetzl glauca Juniper, pyramids, staked and sheared pyramids		
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Juniper, chinensis keteleeri		
4 to 5 ft.	4.25	4.00
Juniper, chinensis mascula		
3 to 4 ft.	3.25	3.00
4 to 5 ft.	4.25	4.00

JUNIPERS, SPREADING VARIETIES

All spreading Junipers many times trimmed, well filled and of specimen quality.

	Each	Each
	Per 10	Per 100
Andorra Juniper	\$1.25	\$1.10
12 to 15 ins.		
15 to 18 ins.	1.60	1.40
18 to 24 ins.	1.90	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Chinensis procumbens Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
Hetzl glauca Juniper		
12 to 15 ins.	1.20	1.00
15 to 18 ins.	1.45	1.30
18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
30 to 36 ins.	3.00	2.75
Pfitzer Juniper		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
Pfitzer Juniper, Blue		
15 to 18 ins.	1.70	1.50
18 to 24 ins.	2.25	2.00
Pfitzer Compact Juniper, Nick's		
12 to 15 ins.	1.25	1.10
15 to 18 ins.	1.70	1.50
30 to 36 ins.	3.25	3.00
Pfitzer Compact Juniper, Kallay		
12 to 15 ins.	\$1.25	
15 to 18 ins.	1.70	
18 to 24 ins.	2.25	
Pfitzer Nana Juniper (Armstrong's)		
12 to 15 ins.	1.25	
15 to 18 ins.	1.70	
18 to 24 ins.	2.25	
Savin Juniper (Sabina)		
12 to 15 ins.	1.20	
15 to 18 ins.	1.50	
18 to 24 ins.	2.00	
Sabina horizontalis Juniper		
15 to 18 ins.	1.70	
18 to 24 ins.	2.25	
Sabina vonehron Juniper		
15 to 18 ins.	1.50	
18 to 24 ins.	2.00	
24 to 30 ins.	2.50	
Rependens Juniper (Juniper, virginiana repandens)		
12 to 15 ins.	1.20	
15 to 18 ins.	1.50	
18 to 24 ins.	2.00	
24 to 30 ins.	2.50	
Virginialis Juniper		
15 to 18 ins.	1.50	
18 to 24 ins.	2.00	
24 to 30 ins.	2.50	

FLOWERING TREES, B&B

	Each	Each
	Per 10	Per 100
Cornus florida (White Dogwood)	\$1.20	\$1.00
2 to 3 ft.		
Magnolia nigra	2.00	1.75
2 to 3 ft.		
Magnolia soulangeana, trimmed plants, heavily branched and budded		
2 to 3 ft.	2.00	1.75
3 to 4 ft.	2.75	2.50
COLD STORAGE—We have available cold storage facilities for taking care of Magnolia other nursery stock. In addition to our list prices, we will make the following minimum charge for storing B&B trees. If stock is to be stored past May 1, additional charges will be made.		
18 to 24 ins.	20c	3 to 4 ft. 30c
2 to 3 ft.	25c	4 to 5 ft. 40c
		5 to 6 ft. 50c
		6 to 8 ft. 60c
Magnolia stellata (Dwarf Star Magnolia)		
18 to 24 ins.	\$2.00	
2 to 3 ft.	3.00	
Magnolia alexandrina		
2 to 3 ft.	2.25	

LINERS

	Per 100	Per 1000
Buxus harlandi	\$12.50	\$100.00
T. bedded, heavy, 4 to 6 ins.		
T. bedded, heavy, 6 to 8 ins.	15.00	125.00
Cherry Laurel		
2 1/2-in. pot, 6 to 8 ins.	12.50	100.00
Elaeagnus fruitlandi		
2 1/4-in. pot, 12 ins.	15.00	125.00
Elaeagnus pungens		
2 1/4-in. pot	15.00	125.00
English Laurel		
2 1/4-in. pot, 6 to 10 ins.	17.50	150.00
Euonymus japonicus albo-marginatus		
T. bedded, 6 ins., light	15.00	125.00
Euonymus japonicus argenteo-variegatus		
T. bedded, 6 ins., good	15.00	125.00
Euonymus radicans, upright		
T. bedded, 6 to 10 ins., heavy	15.00	125.00
Ilex cornuta burfordi		
2 1/2-in. pot, 5 ins.	17.50	150.00
Ilex cornuta femina		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex cornuta Hume		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex cornuta rotunda		
2 1/2-in. pot	22.50	200.00
Ilex crenata Buxi		
T. bedded, 4 to 6 ins.	12.50	100.00
Ilex crenata helleri		
2 1/2-in. pot	17.50	150.00
Ilex crenata hetzi		
2 1/2-in. pot	15.00	125.00
Ilex crenata repandens		
T. bedded, 4 to 6 ins.	15.00	125.00
Ilex crenata retundifolia		
T. bedded, 6 to 8 ins.	15.00	125.00
Ilex crenata, seedlings		
T. bedded, 6 to 10 ins., br.	15.00	125.00
Ilex opaca Arden		
2 1/2-in. pot, 4 to 6 ins.	22.50	200.00

	Per 100	Per 1000
Ilex opaca Croonenburg	\$22.50	\$200.00
2 1/2-in. pot, 6 to 8 ins.		
Ilex opaca East Palatka		
2 1/2-in. pot, 4 to 6 ins.	17.50	150.00
Ilex opaca howardi		
2 1/2-in. pot, 4 to 6 ins.	22.50	200.00
Ilex opaca Hume No. 2		
2 1/2-in. pot, 6 to 10 ins.	17.50	150.00
Ilex opaca Reynolds		
2 1/2-in. pot, 6 to 8 ins.	20.00	175.00
Jasmine, floridum		
T. bedded, 8 to 12 ins., heavy	15.00	125.00
Ligustrum Suwannee River		
T. bedded, 8 ins., heavy	30.00	300.00
Nandina domestica		
2-in. pot, 4 to 8 ins.	12.50	100.00
Viburnum burkwoodi		
2 1/2-in. pot	17.50	150.00
Viburnum chenaulti		
2 1/2-in. pot	17.50	150.00
Viburnum rhytidophyllum (Leather-Leaved)		
2 1/2-in. pot	17.50	150.00
Zabel Laurel		
2 1/2-in. pot, 6 to 8 ins., br.	17.50	150.00
Thuja occidentalis compacta erecta		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis globosa		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis pyramidalis		
2 1/2-in. pot	17.50	150.00
Thuja occidentalis wareana (Siberian)		
2 1/2-in. pot	17.50	150.00
Chamaecyparis Cyano Viridis		
3-in. pot	17.50	150.00
Juniper, chinensis procumbens		
3-in. pot	22.50	200.00
Juniper, hetzi glauca		
Beer cans, 6 to 8 ins.	17.50	150.00

ONE-YEAR, FIELD-GROWN LINERS

well-rooted, heavy

	Per 100
Juniper, Andorra	\$15.00
6 to 8 ins., good	
Juniper, excelsa stricta	15.00
8 to 10 ins., heavy, trimmed	
Juniper, hetzi glauca	15.00
8 to 12 ins.	
Juniper, Pfitzer, compacta (Kallay)	17.50
8 to 10 ins.	
Juniper, Pfitzer, compacta (Nick's)	17.50
8 to 10 ins., good	
Juniper, Pfitzer Blue	17.50
8 to 12 ins.	
Juniper, repandens	17.50
cutback from 8 to 10 ins.	
Juniper, sabina	15.00
10 to 12 ins., heavy	
Juniper, sabina horizontalis	15.00
10 to 12 ins.	
Juniper, chinensis albo-variegata	17.50
8 to 10 ins.	
Juniper, virginialis	12.50
8 to 12 ins.	
Juniper, sabina vonehron	15.00
8 to 12 ins.	
Juniper, fastigiata	15.00
8 to 12 ins.	
Juniper, Golden Canadian	15.00
8 to 12 ins.	

BROAD-LEAVED EVERGREENS

	Each Per 10	Each Per 100		Each Per 10	Each Per 100		Each Per 10	Each Per 100
<i>grandiflora</i> 4 ft.	\$1.75	\$1.50	<i>Ilex crenata rotundifolia</i> , heavy, many times sheared	\$1.00	\$0.80	<i>Ligustrum lucidum</i> (Black Wax)	\$1.50	\$1.25
<i>aster decora lactea</i> to 24 ins.	1.25	1.00	12 to 15 ins.	1.20	1.00	24 to 30 ins.	1.75	1.50
<i>gnus fruticand</i> 3 ft.	1.25	1.00	15 to 18 ins.	1.75	1.50	<i>Ligustrum Suwannee River</i>		
4 ft.	1.75	1.50	18 to 24 ins.	2.25	2.00	15 to 18 ins.	1.50	1.25
<i>gnus simoni</i> 3 ft.	1.25	1.00	24 to 30 ins.	2.75	2.50	18 to 24 ins.	2.25	2.00
4 ft.	1.75	1.50	3 to 4 ft.	3.75	3.25	24 to 30 ins.	2.75	2.50
<i>gnus coloratus</i> 3 ft.	1.25	1.00	Sheared pyramids			30 to 36 ins.	3.25	3.00
4 ft.	1.75	1.50	30 to 36 ins.	3.00	2.50	<i>Laurel, Carolina</i> (Cherry Laurel)		
<i>gnus fortunei erectus</i> to 18 ins.	1.25	1.00	24 to 30 ins.	2.50	2.00	2 to 3 ft.	1.50	1.25
to 24 ins.	1.50	1.25	<i>Ilex glabra</i>			3 to 4 ft.	1.75	1.50
<i>gnus patens</i> to 24 ins.	1.25	1.00	15 to 18 ins.	1.20	1.00	4 to 5 ft.	2.25	2.00
3 ft.	1.75	1.50	18 to 24 ins.	1.75	1.50	5 to 6 ft.	2.75	2.50
4 ft.	2.25	2.00	24 to 30 ins.	2.25	2.00	<i>Laurel, sabali</i> (Strap-leaved Laurel)		
<i>gnus radicans</i> , several selected types			30 to 36 ins.	2.75	2.50	15 to 18 ins.	1.20	1.00
to 18 ins.	1.20	1.00	<i>Ilex opaca</i> , seedlings			18 to 24 ins.	1.75	1.50
to 24 ins.	1.50	1.25	2 to 3 ft.	1.75	1.50	24 to 30 ins.	2.25	2.00
<i>gnus angustifolia</i> 4 ft.	3.50	3.00	3 to 4 ft.	2.75	2.50	30 to 36 ins.	2.75	2.50
<i>gnus burfordi</i> to 18 ins.	1.20	1.00	4 to 5 ft.	3.75	3.50	<i>Laurel, English</i>		
to 24 ins.	1.50	1.25	5 to 6 ft.	5.50	5.00	2 to 3 ft.	1.75	1.50
to 30 ins.	1.75	1.50	6 to 8 ft.	7.50	7.00	<i>Lonicera yunnanensis</i> (Chinese Evergreen Honeysuckle)		
to 36 ins.	2.50	2.25	<i>Ilex opaca East Palatka</i>			15 to 18 ins.	1.20	1.00
<i>gnus femina</i> to 18 ins.	1.20	1.00	2 to 3 ft.	1.75	1.50	18 to 24 ins.	1.50	1.25
to 24 ins.	1.50	1.25	3 to 4 ft.	2.75	2.50	<i>Loropetalum chinensis</i> (Texas Fringe)		
to 30 ins.	1.75	1.50	4 to 5 ft.	3.75	3.50	18 to 24 ins.	1.20	1.00
to 36 ins.	2.50	2.25	5 to 6 ft.	5.50	5.00	24 to 30 ins.	1.75	1.50
<i>gnus Hume</i> , semidwarf, dark green, rectangular leaf			6 to 7 ft.	7.50	7.00	30 to 36 ins.	2.25	2.00
to 18 ins.	1.50	1.25	<i>Ilex opaca howardi</i>			<i>Magnolia glauca</i>		
to 24 ins.	1.75	1.50	2 to 3 ft.	2.25	2.00	2 to 3 ft.	1.75	1.50
to 30 ins.	2.25	2.00	3 to 4 ft.	3.25	3.00	3 to 4 ft.	2.25	2.00
to 36 ins.	2.75	2.50	4 to 5 ft.	4.25	4.00	4 to 5 ft.	2.75	2.50
<i>gnus Bilozi</i> , very hardy, transplants easily, excellent for low hedges			5 to 6 ft.	5.50	5.00	5 to 6 ft.	3.50	3.25
to 18 ins.	1.20	1.00	<i>Ilex opaca Hume No. 2</i>			6 to 8 ft.	5.50	5.00
to 24 ins.	1.75	1.50	2 to 3 ft.	2.25	2.00	<i>Magnolia grandiflora</i>		
to 30 ins.	2.25	2.00	3 to 4 ft.	3.25	3.00	2 to 3 ft.	1.75	1.50
<i>gnus convexa</i> to 15 ins.	1.00	.80	<i>Ilex opaca Reynolds</i>			3 to 4 ft.	2.25	2.00
to 18 ins.	1.25	1.00	2 to 3 ft.	2.25	2.00	4 to 5 ft.	2.75	2.50
to 24 ins.	1.75	1.50	3 to 4 ft.	3.25	3.00	5 to 6 ft.	3.50	3.25
to 30 ins.	2.25	2.00	<i>Ilex opaca Taber No. 3</i>			6 to 8 ft.	5.50	5.00
<i>gnus repandens</i> , excellent low-spreading variety			2 to 3 ft.	2.25	2.00	<i>Nandina domestica</i>		
to 18 ins.	1.50	1.25	3 to 4 ft.	3.25	3.00	15 to 18 ins. ....	.90	.75
to 24 ins.	2.00	1.75	<i>Ilex vomitoria</i>			18 to 24 ins.	1.20	1.00
<i>gnus floridum</i> 15 to 18 ins.	1.20	1.00	18 to 24 ins.	1.20	1.00	24 to 30 ins.	1.50	1.25
18 to 24 ins.	1.50	1.25	24 to 30 ins.	1.75	1.50	30 to 36 ins.	1.75	1.50
2 to 3 ft.	1.75	1.50	30 to 36 ins.	2.25	2.00	3 to 4 ft.	2.25	2.00

ORIENTAL ARBORVITAE VARIETIES

	Each Per 10	Each Per 100
(<i>Thuja orientalis</i>)		
<i>gnus Golden Arborvitae</i> to 18 ins.	\$1.40	\$1.20
to 24 ins.	1.70	1.50
<i>Cone Arborvitae</i> , compact pyramid to 36 ins.	1.70	1.50
<i>gnus Arborvitae</i> , dwarf, full, green to 18 ins.	1.35	1.20
to 30 ins.	2.25	2.00
<i>gnus Arborvitae</i> to 36 ins.	1.70	1.50
<i>gnus 5 ft.</i>	3.00	2.50
<i>gnus Arborvitae</i> to 36 ins.	1.70	1.50

AMERICAN ARBORVITAE VARIETIES

	Each Per 10	Each Per 100
(<i>Thuja occidentalis</i>)		
<i>Dark Green American Arborvitae</i> 24 to 30 ins.	\$1.75	\$1.50
30 to 36 ins.	2.25	2.00
<i>Compacta erecta Globe Arborvitae</i> 18 to 24 ins.	2.00	1.75
24 to 30 ins.	2.50	2.25
<i>Globe American Arborvitae</i> 18 to 24 ins.	2.25	2.00
24 to 30 ins.	2.75	2.50
<i>Pyramidal American Arborvitae</i> 18 to 24 ins.	1.60	1.35
24 to 30 ins.	1.80	1.65
30 to 36 ins.	2.50	2.25
3 to 4 ft.	3.00	2.75
4 to 5 ft.	4.00	3.50

MISCELLANEOUS CONIFERS

	Each Per 10	Each Per 100
<i>Cedrus atlantica</i> 2 to 3 ft.	\$1.75	\$1.50
3 to 4 ft.	2.75	2.50
<i>Cedrus deodara</i> 2 to 3 ft.	1.75	1.50
<i>Cedrus libani</i> 2 to 3 ft.	1.75	1.50
3 to 4 ft.	2.75	2.50
<i>Plume Cypress</i> (<i>Retinospora plumosa</i>), sheared 24 to 30 ins.	1.70	1.50
30 to 36 ins.	2.25	2.00
<i>Plume Cypress, Golden</i> , sheared (<i>Retinospora plumosa aurea</i>) 24 to 30 ins.	1.75	1.50
30 to 36 ins.	2.25	2.00

ARTWRIGHT NURSERY CO.

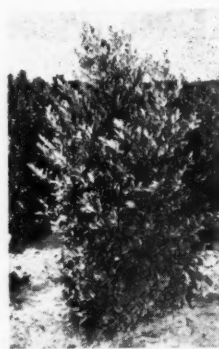
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Highest-Quality NORTHERN ALABAMA GROWN ORNAMENTALS

For spring, 1960, we can still offer, in quantity, the stock listed below. All merchandise has been properly grown and sheared as needed. All first class.

We're headquarters for perfect Cherry Laurels. (See specimen shown at right.)

Pictured below are our young, healthy, assorted evergreens.



BROAD-LEAVED, B&B

<i>Abelia grandiflora</i>	Each
2 to 3 ft.	\$1.00
<i>Barberry, julianae</i>	
15 to 18 ins.	1.25
18 to 24 ins.	1.50
<i>Euonymus pafens</i>	
18 to 24 ins.	1.00
<i>Gardenia radicans</i>	
12 to 15 ins.	.80
15 to 18 ins.	1.00
<i>Ilex burfordi</i>	
18 to 24 ins.	1.50
24 to 30 ins.	2.00
<i>Ilex East Palatka</i>	
18 to 24 ins.	1.25
24 to 30 ins.	1.50
30 to 36 ins.	1.75
<i>Ilex opaca fosteri No. 2</i>	
18 to 24 ins.	1.50
24 to 30 ins.	2.00
<i>Jasmine, floridum</i> (Showy Jasmine)	
18 to 24 ins.	1.00
<i>Ligustrum lucidum</i> and <i>Ligustrum lucidum pendulum</i>	
18 to 24 ins.	1.00
24 to 30 ins.	1.25
<i>Nandina domestica</i>	
18 to 24 ins., 4 or 5 canes	1.00
2 to 3 ft., 4 to 6 canes	1.25
<i>Pittosporum tobira</i>	
15 to 18 ins.	1.00
<i>Prunus caroliniana</i> (Cherry Laurel)	
18 to 24 ins.	1.00
2 to 3 ft.	1.25
3 to 4 ft.	1.75
4 to 5 ft.	2.25
5 to 6 ft.	2.75
6 to 7 ft.	3.75
<i>Pyracantha formosana</i>	
1-gal., 18 to 24 ins.	.75
2 to 3 ft.	2.00
Scotch Broom	
2 to 3 ft.	1.00

Also many other items such as azaleas and holly varieties in lesser quantities.

CONIFERS

<i>Berkmans Arborvitae</i>	Each
15 to 18 ins.	\$1.00
18 to 24 ins. and up	1.25
<i>Baker Arborvitae</i>	
24 to 30 ins.	1.00
<i>Excelsa Arborvitae</i>	
24 ins.	1.00
30 ins.	1.25
<i>Juniperus chinensis pfitzeriana</i> (Pfitzer Juniper)	
12 to 15 ins.	1.10
15 to 18 ins.	1.25
<i>Juniperus chinensis compacta</i> (Compact Pfitzer Juniper)	
12 to 15 ins.	1.10
15 to 18 ins.	1.25
<i>Juniperus communis fastigiata</i> (Improved Irish Juniper)	
36 ins. and up	1.00
<i>Juniperus excelsa stricta</i> (Greek Juniper)	
15 to 18 ins.	1.00
18 to 24 ins.	1.25
<i>Juniperus glauca hetzi</i>	
15 to 18 ins.	1.00
<i>Loblolly or Long-leaved Pine</i>	
5 to 6 ft., B&B	2.50
<i>Thuja occidentalis pyramidalis</i> , American	
18 to 24 ins.	1.25
<i>Thuja occidentalis woodwardi</i> , Globe	
12 to 18 ins.	1.00

LINERS

Field-grown and bedded liners—liberal grades—packed right. The very best to be found—try them, they'll make you money!

<i>Berkmans Golden Arborvitae</i>	Each
6 to 12 ins., beds, T.	\$0.15
<i>Juniper, Pfitzer</i>	
6 to 12 ins., 1-yr., field-grown	.12½
8 to 12 ins., 2-yr., field-grown	.15
<i>Juniper, Pfitzer Compact</i> (Owen's Type)	
6 to 12 ins., 1-yr., field-grown	.13½
<i>Juniperus fastigiata</i> (Improved Irish Juniper)	
8 to 12 ins., 1-yr., field-grown	.10
12 to 15 ins., 2-yr., field-grown	.12½
<i>Juniperus hetzi glauca</i>	
8 to 12 ins., 1-yr., field-grown	.10
12 to 15 ins., 2-yr., field-grown	.12½
<i>Juniper, Savin</i>	
6 to 12 ins., 1-yr., field-grown	.10
<i>Juniperus vonehrn</i>	
6 to 12 ins., 1-yr., field-grown	.10
<i>Thuja occidentalis woodwardi</i> , Globe	
6 to 8 ins., T., beds	.12½

MONROE NURSERIES OF CROSSVILLE, ALABAMA, INC.

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the firm. Surviving are two sons, Wayne Franklin, of the Franklin Nursery, Fort Worth, president of the Tarrant County Nursery and Landscape Association, and Orvin Franklin, Fort Worth, and one daughter, Mrs. L. B. Henderson, Fort Worth.

MICHIGAN LANDSCAPE ASSOCIATION MEETS

The Statler-Hilton hotel, Detroit, Mich., hosted the Michigan Association of Landscape Architects January 27 and 28 during its third annual winter meeting. The session, held in conjunction with the winter meeting of the Michigan Association of Nurserymen, attracted representatives from every part of the state.

Highlight of the meeting was an address by Malcolm Waring, Waring-Johnson, landscape architects, Detroit, and Richard Vadick, Detroit department of parks and recreation, who discussed the development of malls in larger cities.

President Jane Smith, Smith Tree Service, Lansing, reported progress on a licensing law for landscape architects in the state of Michigan. Mrs. Smith stated the new bill had been reworded in response to objections from various groups in the state. Advantages of passing the legislation, which would be administered by the department of agriculture, include the fact that defining landscape architect in Michigan law would give such work professional status. The law would also prohibit unqualified persons from advertising as landscape architects, she pointed out. The new bill will not affect landscape architects who do not deal directly with plant materials. Support of the new bill by the Michigan Association of Nurserymen and by the Michigan Association of Landscape Architects along with personal calls and letters to representatives are important to get the legislation passed, Mrs. Smith concluded.

Lawrence E. Smith, landscape architect, Birmingham, was elected president of the association for 1960. Other officers include Kenneth Run-ciman, landscape architect, Ann Arbor, vice-president; Russell Hurd, Northland Landscaping, Inc., Detroit, secretary, and Emerson C. Brown, Emerson C. Brown Co., Birmingham, treasurer. Two-year posts on the board of directors were filled by Robert Fedosky, landscape architect, Birmingham, and Leon Christensen, Plymouth Nursery, Livonia. George Crow was selected to fill a vacancy on the board for a term of one year. D. H. V.

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and Orvin
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CAPE ETS

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Mr. Morgan of Green Valley Nursery Co., Covington, La., is shown holding an Azalea mollis which had been in outdoor beds in Jiffy-Pots for 6 months. Says Mr. Morgan, "We like Jiffy-Pots for our liners and we will be using a lot more."

Right—Ilex in 2 1/4-in. Jiffy-Pots, potted in Sept., 1958, picture taken March, 1959.



VINCA—Gresham Nurseries state "When using Jiffy-Pots you don't have to knock out of clay and wrap the plants for shipping."



LIGUSTRUM—These wax Ligustrums have also been in Jiffy-Pots for six months at Green Valley Nursery, Covington, La.

Propagators!—Add three months to every year

with Jiffy-Pots[®] MADE OF PEAT

1. Nursery stock reaches salable size at least 20 per cent faster. Propagators report that 3-year-old stock which was started in Jiffy-Pots is fully equal to 4-year stock started in clay pots. This increase is due to better and faster development and no transplant shock.
2. Your growing area will handle 15 per cent more Jiffy-Potted liners than clay-potted liners.
3. Field planting operations can continue over a longer period of time because Jiffy-Potted liners need not be root-bound prior to going into the field.

The peat pot protects the soil ball during the transplanting operation.



RHODODENDRON—Richard Schwoebel Nursery, Ardmore, Pa., states, "We can make a salable Rhododendron from a cutting one year faster by using Jiffy-Pots as compared to conventional methods."



EUONYMUS—Euonymus coloratus, potted July, 1957, photo taken November 13, 1958. These were carried in cold-frames pot-tight, with sand covering on top of the pots.



VIBURNUM—Princeton Nurseries, Princeton, N. J., carried these Viburnum opulus nanum along one year in 2 1/4-in. Jiffies.



OLEANDER—Note the excellent root development of these young plants after six months in 2 1/4-in. Jiffy-Pots.

YOU CAN COUNT ON JIFFY-POTS FOR TOTAL ROOT PENETRATION

No. 122. 2 1/4-in. Round. 2 1/4 ins. deep. Per 1000
3000 to 18,000 (3000, \$21.75).....\$7.25
21,000 to 72,000.....6.75
75,000 up.....6.85
Sold in cases of 3000. 35 lbs. per case. Minimum order 3000.

No. 222. 2 1/4-in. Square. 2 1/4 ins. deep. Per 1000
2500 to 17,500 (2500, \$20.00).....\$8.00
20,000 to 72,500.....7.35
75,000 up.....6.70
Sold in cases of 2500. 40 lbs. per case. Minimum order 2500.

No. 130. 3-in. Round. 3 ins. deep. Per 1000
1500 to 9000 (1500, \$19.88).....\$13.25
10,500 to 49,500.....12.25
51,000 up.....11.00
Sold in cases of 1500. 35 lbs. per case. Minimum order 1500.

No. 230. 3-in. Square. 3 ins. deep. Per 1000
1000 to 9000.....\$14.50
10,000 to 49,000.....13.25
50,000 up.....12.00
Sold in cases of 1000. 40 lbs. per case. Minimum order 1000.

No. 330. 3-in. Shorty. 2 1/2 ins. deep. Per 1000
1500 to 9000 (1500, \$19.50).....\$13.00
10,500 to 49,500.....12.00
51,000 up.....10.75
Sold in cases of 1500. 33 lbs. per case. Minimum order 1500.

No. 140. 4-in. Round. 4 ins. deep. Per 1000
500 to 4500 (500, \$13.75).....\$27.50
5000 to 19,500.....25.50
20,000 up.....23.50
Sold in cases of 500. 35 lbs. per case. Minimum order 500.

Three additional sizes also available: 1 1/2-in. Round, 3-in. Shorty, 4-in. Square. Write for prices.

Prices PREPAID in lots of 150 lbs. or more anywhere in the continental United States excluding Alaska. Otherwise F.O.B. West Chicago; Bayonne, N. J.; Allentown, Pa.; Toledo, Ohio; Houston, Tex.; Los Angeles, Calif.; San Francisco, Calif.; Portland, Ore.; Mobile, Ala.

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GEO. J. Ball

GEO. J. BALL, INC.

Long Island Panelists Discuss Equipment And Lawns

By Daniel Dowd

Long Island nurserymen, garden supply dealers and landscape contractors, 125 strong, attended the school presented January 27 and 28 at the State University Agricultural and Technical Institute, Farmingdale, L. I., N. Y., to make it the most successful on record. Many students of ornamental horticulture were privileged to hear the talks and discussions.

Contributing to the success of the venture was the close cooperation among the participating agencies, represented by the following members of the planning committee: Peter Costich, Long Island Nurserymen's Association; Robert O'Knefski, Nassau county extension service; Robert McLaughlin, evening and extension division, State University Agricultural and Technical Institute, and Daniel Dowd, department of ornamental horticulture, S. U. A. T. I.

In his welcoming address to the nurserymen, Dr. William A. Medesy, director of the institute, explained charts of school statistics. The curriculum in ornamental horticulture, with 162 students, comprises about 10 per cent of the institute enrollment. Horticulture students major in biological technology, floriculture, landscape or nursery management.

Projected graphs show that by 1970 the demands for admission will far exceed the planned capacity. This is a matter of grave concern to educators and laymen alike, and will have to be faced in this decade.

Appearances Important

Al Locke, president, Pinelawn memorial park, in an address entitled "Does the Nursery Business Need a Window Dressing?", emphasized the



Members of a panel that discussed profit in the lawn business at the Long Island school held recently at Farmingdale: Left to right, Robert Gettinger, Edward Robinson, Dr. John Cornman, John Kean and George Hren.

importance of appearances in gaining or losing customers. He cited as an object lesson a nursery that attracts many potential customers with its direct-mail advertising only to repel them with the sheer untidiness and poor design exhibited by the establishment.

He urged nurserymen to make dynamic use of their own merchandise—establishing a fine lawn to

boost seed sales, for example, or operating lawn sprinklers during dry weather, or maintaining specimen hedges. Large advertisements placed by the association, featuring some seasonal special item, were also suggested.

For improving nursery appearances, Mr. Locke recommended easy approaches to salesyards, hard-sur-

[Continued on page 40]



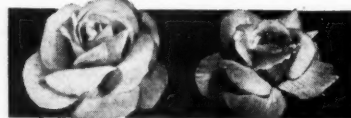
Profit from the
demand for
Sarabande
ALL-AMERICA WINNER
FOR 1960

Selected by America's top rose experts as a winner, the new oriental red floribunda, Sarabande, will be a favorite. Be ready to meet the demand for this beauty among roses. Its unusually brilliant blooms are accented with bright yellow stamens. Sarabande will perform as well for your trade as it did in a two-year test in All-America gardens throughout the nation. (Plant Patent No. 1761.)

FIRE KING, another All-America winner for 1960, is a flame-red floribunda with huge clusters of fully double blooms and rich, deep green foliage. (Plant Patent No. 1758.)

GOLDEN GIRL is the amazing new Conard-Pyle grandiflora which adds masses of pure yellow color to the garden and is also excellent for cutting. A prolific bloomer. (Plant Patent applied for.)

Get your natural-color, 27x30-in. wall poster, showing 12 Roses of Distinction, direct from Conard-Pyle.



Fire King

Golden Girl

Order your supplies now from your grower or write:

GROWERS OF THE FAMOUS STAR ROSES



The Conard-Pyle Co.

WEST GROVE 220, PENNA.



Mr. Jens is shown as he makes a periodical inspection of a block of his young evergreens.

Clean soil produces more profits

Mr. Leland L. Jens, Jens Nursery and Landscape Co., Wisconsin Rapids, Wisconsin, is one of the most progressive nurserymen in the Great Lakes region. Read what he says above about VAPAM® soil fumigant.

Nurserymen in all parts of the country are discovering that soil fumigation with VAPAM not only reduces production expenses, but returns additional profits in better, more vigorous plants. In the first place, VAPAM controls weeds, germinating weed seed, nematodes, and soil fungi. It gets rid of most of your plants' soil-borne enemies.

Then, moisture and plant foods can give their full growth-power to producing plants that command top prices.

VAPAM is an easy-to-use liquid that doesn't require special application equipment, and does not leave harmful residues in the soil after the fumigant disappears. Applications methods, dosage rates and other details are on the label.

Clean your soil with VAPAM. See your local supplier, or write for further information to: Stauffer Chemical Company, 380 Madison Avenue, New York 17, N. Y.

Stauffer is one of America's largest specialists in farm chemicals. Use Stauffer brand INSECTICIDES, FUNGICIDES, WEED KILLERS, MITICIDES, SEED PROTECTANTS, FUMIGANTS, GROWTH REGULATORS, GRAIN PROTECTANTS, DEFOLIANTS.

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T. G. OWEN & SON, INC.

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FINISHED STOCK

	Each	10 or more
Biota aurea nana Berckmans	Each	10 or more
15 to 18 ins., B&B	\$1.40	\$1.20
18 to 24 ins., B&B	1.70	1.50
Biota aurea pyramidalis compacta		
30 to 36 ins., B&B	1.70	1.50
3 to 4 ft., B&B	2.00	1.75
4 to 5 ft., B&B	2.50	2.25
Biota bakeri		
24 to 30 ins., B&B	1.30	1.10
30 to 36 ins., B&B	1.60	1.40
3 to 4 ft., B&B	2.00	1.75
4 to 5 ft., B&B	2.50	2.25
Biota Blue Cone		
18 to 24 ins., B&B	1.20	1.00
24 to 30 ins., B&B	1.45	1.25
30 to 36 ins., B&B	1.70	1.50
Biota Bonita		
15 to 18 ins., B&B	1.30	1.10
18 to 24 ins., B&B	1.60	1.40
24 to 30 ins., B&B	2.00	1.75
30 to 36 ins., B&B	2.25	2.00
Biota Bonita, upright (Brewer's Hybrid)		
18 to 24 ins., B&B	1.30	1.10
24 to 30 ins., B&B	1.45	1.25
30 to 36 ins., B&B	2.00	1.75
3 to 4 ft., B&B	2.25	2.00
4 to 5 ft., B&B	2.50	2.25
Biota excelsa		
15 to 18 ins., B&B	1.30	1.00
18 to 24 ins., B&B	1.50	1.10
24 to 30 ins., B&B	1.60	1.40
3 to 4 ft., B&B	2.00	1.75
4 to 5 ft., B&B	2.25	2.00
Biota fruitlandi		
15 to 18 ins., B&B	1.40	1.20
18 to 24 ins., B&B	1.70	1.50
24 to 30 ins., B&B	1.95	1.75
Biota sibirica		
24 to 30 ins., B&B	1.30	1.10
30 to 36 ins., B&B	1.40	1.40
3 to 4 ft., B&B	2.00	1.75
4 to 5 ft., B&B	2.50	2.25
Cedrus deodara		
18 to 24 ins., B&B	1.55	1.35
24 to 30 ins., B&B	1.80	1.60
Andorra Juniper		
12 to 15 ins., B&B	1.30	1.10
15 to 18 ins., B&B	1.60	1.40
18 to 24 ins., B&B	1.95	1.75
24 to 30 ins., B&B	2.20	2.00
Juniperus chinensis pfitzeriana		
12 to 15 ins., B&B	1.30	1.10
15 to 18 ins., B&B	1.70	1.50
18 to 24 ins., B&B	2.00	1.75
24 to 30 ins., B&B	2.50	2.25
30 to 36 ins., B&B	2.75	2.50
Juniperus chinensis pfitzeriana compacta		
12 to 15 ins., B&B	1.30	1.10
15 to 18 ins., B&B	1.70	1.50
18 to 24 ins., B&B	2.00	1.75
24 to 30 ins., B&B	2.50	2.25
30 to 36 ins., B&B	2.75	2.50
Juniperus chinensis pfitzeriana nana		
12 to 15 ins., B&B	1.25	1.10
15 to 18 ins., B&B	1.65	1.50
30 to 36 ins., B&B	2.75	2.50
Juniperus pfitzeriana, blue-gray		
12 to 15 ins., B&B	1.20	1.00
15 to 18 ins., B&B	1.50	1.30
18 to 24 ins., B&B	2.00	1.75
24 to 30 ins., B&B	2.50	2.25
30 to 36 ins., B&B	2.75	2.50
Juniperus chinensis mascula		
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	3.25	3.00
Juniperus chinensis viridifolia		
15 to 18 ins., B&B	1.40	1.25
18 to 24 ins., B&B	1.75	1.50
24 to 30 ins., B&B	2.00	1.75
30 to 36 ins., B&B	2.25	2.00
3 to 4 ft., B&B	2.75	2.50
Juniperus communis cracovia (Polish Juniper)		
24 to 30 ins., B&B	1.20	1.00
30 to 36 ins., B&B	1.50	1.25

	Each	10 or more
Juniperus excelsa stricta	Each	10 or more
12 to 15 ins., B&B	\$1.20	\$1.00
15 to 18 ins., B&B	1.35	1.20
18 to 24 ins., B&B	1.65	1.50
24 to 30 ins., B&B	2.25	2.00
30 to 36 ins., B&B	2.75	2.50
Juniperus glauca hetzi		
12 to 15 ins., B&B	1.20	1.00
15 to 18 ins., B&B	1.50	1.30
18 to 24 ins., B&B	2.00	1.75
24 to 30 ins., B&B	2.50	2.25
Juniperus hibernica fastigiata		
24 to 30 ins., B&B	1.10	1.00
30 to 36 ins., B&B	1.40	1.25
4 to 5 ft., B&B	2.25	2.00
5 to 6 ft., B&B	2.50	2.25
Juniperus virginiana burkii		
24 to 30 ins., B&B	2.75	2.50
Juniperus virginiana burkii compacta (A counterpart of the well-known J. virginiana burkii, except that this one is a beautiful spreading type, maintaining the well-known glaucous color of the upright form.)		
15 to 18 ins., B&B	1.75	1.50
18 to 24 ins., B&B	2.25	2.00
Juniperus virginiana canaertii		
24 to 30 ins., B&B	2.75	2.50
30 to 36 ins., B&B	3.25	3.00
3 to 4 ft., B&B	3.75	3.50
4 to 5 ft., B&B	4.25	4.00
Juniperus virginiana keteleeri		
24 to 30 ins., B&B	2.25	2.00
30 to 36 ins., B&B	2.50	2.25
3 to 4 ft., B&B	3.00	2.75
4 to 5 ft., B&B	3.50	3.25
Podocarpus sinensis		
12 to 15 ins., B&B	1.15	1.00
15 to 18 ins., B&B	1.40	1.25
Thuja occidentalis Hetz's Winter Green		
15 to 18 ins., B&B	1.40	1.25
24 to 30 ins., B&B	1.75	1.60
30 to 36 ins., B&B	2.25	2.00
Abelia grandiflora		
15 to 18 ins., B&B	.90	.80
18 to 24 ins., B&B	1.00	.90
2 to 3 ft., B&B	1.10	1.00
Berberis sargentiana		
15 to 18 ins., B&B	1.40	1.25
Buxus sempervirens cronii		
10 to 12 ins., B&B	1.15	1.00
12 to 15 ins., B&B	1.40	1.25
15 to 18 ins., B&B	1.50	1.35
Camellia sasanqua Malden's Blush		
15 to 18 ins., B&B	1.15	1.00
18 to 24 ins., B&B	1.40	1.25
Elaeagnus fruitlandi		
18 to 24 ins., B&B	1.10	.90
2 to 3 ft., B&B	1.20	1.00
3 to 4 ft., B&B	1.50	1.25
Euonymus patens, small leaf		
15 to 18 ins., B&B	.95	.75
18 to 24 ins., B&B	1.20	1.00
Euonymus radicans erectus		
15 to 18 ins., B&B	1.05	.90
Ilex cornuta		
18 to 24 ins., B&B	1.45	1.25
24 to 30 ins., B&B	1.70	1.50
Ilex cornuta, seedlings		
18 to 24 ins., B&B	1.40	1.25
24 to 30 ins., B&B	1.75	1.50
30 to 36 ins., B&B	2.00	1.75
3 to 4 ft., B&B	2.50	2.25
Ilex cornuta burfordi		
15 to 18 ins., B&B	1.15	1.00
18 to 24 ins., B&B	1.40	1.25
24 to 30 ins., B&B	1.75	1.50
Ilex crenata convexa bullata		
10 to 12 ins., B&B	.85	.70
12 to 15 ins., B&B	1.00	.80

	Each	10 or more
Ilex crenata rotundifolia	Each	10 or more
15 to 18 ins., B&B	\$1.15	\$1.00
18 to 24 ins., B&B	1.75	1.50
24 to 30 ins., B&B	2.25	2.00
Ilex glabra (Inkberry)		
12 to 15 ins., B&B	1.00	.90
15 to 18 ins., B&B	1.15	1.00
18 to 24 ins., B&B	1.40	1.25
Ilex opaca East Palatka		
18 to 24 ins., B&B	1.25	1.10
30 to 36 ins., B&B	1.70	1.50
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	3.25	3.00
Ilex opaca femina		
3 to 4 ft., B&B	2.75	2.50
Ilex opaca Howard		
2 to 3 ft., B&B	2.25	2.00
3 to 4 ft., B&B	3.25	3.00
Ilex opaca Howard, seedlings		
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	3.50	3.25
5 to 6 ft., B&B	4.00	3.75
Ilex vomitoria		
2 to 3 ft., B&B	2.00	1.75
3 to 4 ft., B&B	2.50	2.25
Ilex crenata hetzi		
10 to 12 ins., B&B	.90	.80
Jasminum floridum		
2 to 3 ft., B&B	.95	.85
(Deduct 50% if wanted B.R.)		
Laurocerasus caroliniana (Cherry Laurel)		
2 to 3 ft., B&B	1.40	1.25
3 to 4 ft., B&B	1.75	1.60
4 to 5 ft., B&B	2.75	2.50
Ligustrum ionandrum		
15 to 18 ins., B&B	1.35	1.20
18 to 24 ins., B&B	1.60	1.40
Ligustrum lucidum compactum		
18 to 24 ins., B&B	1.00	.90
24 to 30 ins., B&B	1.25	1.10
30 to 36 ins., B&B	1.50	1.35
Magnolia grandiflora		
2 to 3 ft., B&B	1.75	1.60
3 to 4 ft., B&B	2.75	2.50
4 to 5 ft., B&B	3.75	3.50
5 to 6 ft., B&B	5.00	4.75
6 to 7 ft., B&B	6.00	5.75
Nandina domestica		
15 to 18 ins., B&B	.90	.80
18 to 24 ins., B&B	1.15	1.00
24 to 30 ins., B&B	1.40	1.25
Photinia serrulata		
15 to 18 ins., B&B	.90	.80
18 to 24 ins., B&B	1.10	1.00
2 to 3 ft., B&B	1.20	1.10
Viburnum tinus		
24 to 30 ins., B&B	1.40	1.25
30 to 36 ins., B&B	2.00	1.75
Acer palmatum atropurpureum, seedlings (Red-leaved Japanese Maple)		
18 to 24 ins., B&B	2.00	1.75
2 to 3 ft., B&B	2.25	2.00
Cydonia japonica		
18 to 24 ins., B&B	1.00	.90
(Deduct 50% if wanted B.R.)		
Euonymus alatus compactus		
18 to 24 ins., B&B	1.40	1.25
2 to 3 ft., B&B	1.75	1.50
(Deduct 50% if wanted B.R.)		
Hypericum patulum (St.-John's-wort or sandrops)		
2 to 3 ft., B&B	1.40	1.25
Magnolia soulangeana		
2 to 3 ft., B&B	2.00	1.75
Spiraea reevesiana flore-pleno (Double Reevesa Spiraea)		
3 to 4 ft., B&B	1.25	1.10

CANNED NURSERY STOCK

	1-gal.	2-gal.
Ilex cornuta burfordi	1-gal. 2-gal.	
12 to 15 ins.	\$0.55	
15 to 18 ins.	\$1.10	
18 to 24 ins.	1.25	
Ilex cornuta, male		
12 to 15 ins.	.55	
Ilex cornuta, seedlings		
12 to 15 ins.	.50	
15 to 18 ins.	.60	

	1-gal.	2-gal.
Ilex crenata buxifolia	1-gal. 2-gal.	
12 to 15 ins.	\$0.70	
15 to 18 ins.	1.10	
Ilex crenata convexa bullata		
6 to 8 ins.	.50	
8 to 10 ins.	.60	
10 to 12 ins.	.70	
12 to 15 ins.	.80	
15 to 18 ins.	1.10	

	1-gal.	2-gal.
Elaeagnus fruitlandi	1-gal. 2-gal.	
18 to 24 ins.	\$1.10	
Euonymus radicans erectus		
12 to 18 ins.	\$0.50	
Gardenia fortunei		
15 to 18 ins.	.50	
18 to 24 ins.	.60	

	1-gal.	2-gal.
Ilex cornuta burfordi	1-gal. 2-gal.	
12 to 15 ins.	\$0.55	
15 to 18 ins.	\$1.10	
18 to 24 ins.	1.25	
Ilex cornuta, male		
12 to 15 ins.	.55	
Ilex cornuta, seedlings		
12 to 15 ins.	.50	
15 to 18 ins.	.60	

	1-gal.	2-gal.
Ilex crenata buxifolia	1-gal. 2-gal.	
12 to 15 ins.	\$0.70	
15 to 18 ins.	1.10	
Ilex crenata convexa bullata		
6 to 8 ins.	.50	
8 to 10 ins.	.60	
10 to 12 ins.	.70	
12 to 15 ins.	.80	
15 to 18 ins.	1.10	

CANNED STOCK—Continued.

	1-gal.	2-gal.		1-gal.	2-gal.		1-gal.	2-gal.
<i>Hex crenata helleri</i>	1.00	1.25	<i>Ligustrum lucidum compactum</i>	1.00	1.25	<i>Pyracantha coccinea lalandi</i>	1.00	1.25
8 to 10 ins.	1.00	1.25	12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25
12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25	18 to 24 ins.	1.00	1.25
18 to 24 ins.	1.00	1.25	24 to 30 ins.	1.00	1.25	2 to 3 ft.	1.00	1.25
3 to 4 ft.	1.00	1.25				3 to 4 ft.	1.00	1.25
<i>Hex crenata hetzli</i>	1.00	1.25	<i>Magnolia grandiflora</i>	1.00	1.25	<i>Pyracantha yunnanensis</i>	1.00	1.25
8 to 10 ins.	1.00	1.25	12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25
12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25	18 to 24 ins.	1.00	1.25
18 to 24 ins.	1.00	1.25	24 to 30 ins.	1.00	1.25	2 to 3 ft.	1.00	1.25
3 to 4 ft.	1.00	1.25				3 to 4 ft.	1.00	1.25
<i>Hex crenata repandens</i>	1.00	1.25	<i>Podocarpus sinensis</i>	1.00	1.25	<i>Viburnum tinus</i>	1.00	1.25
8 to 10 ins.	1.00	1.25	12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25
12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25	18 to 24 ins.	1.00	1.25
18 to 24 ins.	1.00	1.25	24 to 30 ins.	1.00	1.25	2 to 3 ft.	1.00	1.25
3 to 4 ft.	1.00	1.25				3 to 4 ft.	1.00	1.25
<i>Hex crenata rotundifolia</i>	1.00	1.25	<i>Pyracantha belli</i>	1.00	1.25	<i>Liquidambar styraciflua</i>	1.00	1.25
8 to 10 ins.	1.00	1.25	12 to 15 ins.	1.00	1.25	(Sweet Gum)	1.00	1.25
12 to 15 ins.	1.00	1.25	16 to 18 ins.	1.00	1.25	2 to 3 ft.	1.00	1.25
18 to 24 ins.	1.00	1.25	24 to 30 ins.	1.00	1.25	3 to 4 ft.	1.00	1.25
3 to 4 ft.	1.00	1.25						
LINING-OUT STOCK								
All potted liners shipped in paper pots or								
Orders for 25 to 249 of a variety in								
size take the 100 rate. Orders for 250 or								
more of a variety in one size take the 1000								
rate.								
	Each	Each		Each	Each		Each	Each
<i>Hex crenata aurea nana</i>	Per 100	Per 1000	<i>Taxus media andersoni</i>	Per 100	Per 1000	<i>Hex opaca East Palatka</i>	Per 100	Per 1000
2 1/2-in. pots	\$0.20	\$0.17 1/2	*2 1/2-in. pots	\$0.18	\$0.17	2 1/2-in. pots	\$0.16	\$0.15
2 1/2-in. pots	.22	.20	<i>Taxus media hicksii</i>	.19	.17	2 1/2-in. pots	.18	.17
<i>Hex crenata aurea pyramidalis</i>			2 1/2-in. pots	.20	.18	<i>Hex opaca femina</i>	.19	.18
compacta			<i>Taxus media sieboldii</i>	.18	.17	2 1/2-in. pots	.22	.20
2 1/2-in. pots	.18	.17	2 1/2-in. pots	.15	.14	<i>Hex opaca Howard</i>	.19	.18
<i>Hex crenata bakeri</i>			<i>Abelia grandiflora</i>	.17	.16	*2 1/2-in. pots	.22	.20
2 1/2-in. pots	.17	.15	2 1/2-in. pots	.15	.14	<i>Hex opaca Howard, seedlings</i>	.14	.12
2 1/2-in. pots	.18	.17	<i>Berberis julianae</i>	.20	.18	<i>Jasminum floridum</i>	.12	.10
<i>Hex crenata Blue Cone</i>			2 1/2-in. pots	.22 1/2	.20	2 1/2-in. pots	.12	.10
2 1/2-in. pots	.18	.16	<i>Buxus sempervirens eroni</i>	.20	.18	<i>Laurocerasus caroliniana</i>	.10	.08
2 1/2-in. pots	.20	.18	2 1/2-in. pots	.22	.20	(Cherry Laurel)	.14	.12
<i>Hex crenata Bonita</i>			<i>Cleyera japonica</i>	.20	.18	8 to 12 ins., S.	.14	.12
2 1/2-in. pots	.17	.15	2 1/2-in. pots	.25	.22 1/2	2 1/2-in. pots	.16	.14
2 1/2-in. pots	.20	.18	3 1/2-in. pots	.27 1/2	.25	<i>Ligustrum lucidum compactum</i>	.14	.12
<i>Hex crenata Bonita, upright</i>			<i>Cleyera ochnacea</i>	.22	.20	2 1/2-in. pots	.17	.15
(Brewer's Hybrid)			2 1/2-in. pots	.22	.20	<i>Ligustrum sinense pendula</i>	.10	.08
2 1/2-in. pots	.18	.16	<i>Elaeagnus fruticosa</i>	.16	.15	(Weeping Amur River	.17	.15
2 1/2-in. pots	.20	.18	2 1/2-in. pots	.18	.17	South Privet)	.10	.08
<i>Hex crenata excelsa</i>			<i>Euonymus microphyllus Pulchellus</i>	.17	.15	2 1/2-in. pots	.17	.15
2 1/2-in. pots	.18	.17	2 1/2-in. pots	.14	.12	<i>Ligustrum Texanum</i>	.17	.15
2 1/2-in. pots	.20	.19	<i>Euonymus radicans erectus</i>	.12	.10	2 1/2-in. pots	.17	.15
<i>Hex crenata excelsa compacta</i> (Goodwin Strain)			2 1/2-in. pots	.12	.10	2 1/2-in. pots	.17	.15
2 1/2-in. pots	.20	.18	<i>Euonymus japonicus aureo-</i>	.22	.20	<i>Magnolia grandiflora</i>	.16	.15
2 1/2-in. pots	.22	.20	<i>variegatus</i>	.24	.22	2 1/2-in. pots	.16	.15
<i>Hex crenata fruticosa</i>			2 1/2-in. pots	.16	.15	<i>Nandina domestica</i>	.12	.10
2 1/2-in. pots	.20	.17 1/2	<i>Gardenia fortunei</i>	.16	.15	2 1/2-in. pots	.14	.12
2 1/2-in. pots	.22	.20	2 1/2-in. pots	.18	.16	3-in. pots	.17	.15
<i>Hex crenata sibirica</i>			<i>Hex aquifolium</i>	.20	.18	<i>Osmanthus fortunei</i>	.16	.15
2 1/2-in. pots	.17	.15	2 1/2-in. pots	.20	.18	(Holly-Leaved Olive), very hardy	.19	.17
2 1/2-in. pots	.18	.17	<i>Hex cornuta, seedlings</i>	.17	.15	2 1/2-in. pots	.16	.15
<i>Hex crenata Lawson Cypress</i>			2 1/2-in. pots	.17	.15	<i>Photinia serrulata</i>	.04	.03
2 1/2-in. pots	.17	.15	<i>Hex cornuta burfordi</i>	.14	.12	3 to 4 ins., S.	.17	.15
2 1/2-in. pots	.19	.17	2 1/2-in. pots	.17	.15	2 1/2-in. pots	.17	.15
<i>Hex crenata Lawson Cypress</i>			<i>Hex cornuta femina</i>	.20	.18	<i>Pittosporum tobira</i>	.05	.04
2 1/2-in. pots	.18	.16	2 1/2-in. pots	.22	.20	2 to 4 ins., S.	.14	.12
2 1/2-in. pots	.20	.18	<i>Hex crenata male</i>	.17	.15	<i>Pyracantha belli, red fruit</i>	.20	.18
<i>Hex crenata Andorra</i>			2 1/2-in. pots	.19	.17	*2 1/2-in. pots	.17	.15
2 1/2-in. pots	.17	.15	<i>Hex crenata buxifolia</i>	.15	.14	2 1/2-in. pots	.19	.17
2 1/2-in. pots	.18	.16	2 1/2-in. pots	.16	.15	<i>Pyracantha Government Red</i>	.18	.16
<i>Hex crenata chinensis pfitzeriana</i>			<i>Hex crenata convexa bullata</i>	.12	.10	*2 1/2-in. pots	.20	.18
2 1/2-in. pots	.17	.15	(SURPLUS: Excellent quality	.12	.10	<i>Pyracantha yunnanensis,</i>	.17	.16
2 1/2-in. pots	.19	.17	at real BARGAIN PRICES.)	.14	.12	red fruit	.17	.16
2 1/2-in. pots	.22	.20	2 1/2-in. pots	.12	.10	<i>Viburnum tinus</i>	.12	.10
2 1/2-in. pots	.27	.25	6 to 8-in. beds, well-br.	.14	.12	2 1/2-in. pots	.12	.10
<i>Hex crenata Hill's Blue pfitzeriana</i>			<i>Hex crenata fosteri No. 1</i>	.18	.16	<i>Acer palmatum atropurpureum,</i>	.21	.20
2 1/2-in. pots	.22	.20	2 1/2-in. pots	.18	.16	seedlings	.26	.25
2 1/2-in. pots	.24	.22	<i>Hex crenata hetzli</i>	.17	.16	<i>Berberis thunbergii atropurpurea</i>	.11	.10
<i>Hex crenata excelsa stricta</i>			2 1/2-in. pots	.18	.17	2 1/2-in. pots	.13	.12
2 1/2-in. pots	.17	.16	<i>Hex crenata repandens</i>	.15	.14	<i>Cornus florida</i>	.12	.10
2 1/2-in. pots	.19	.18	2 1/2-in. pots	.16	.15	2 1/2-in. pots	.14	.12
<i>Hex crenata hibernica fastigiata</i>			<i>Hex crenata rotundifolia</i>	.10	.08	<i>Lagerstroemia indica Wm.</i>	.17	.16
2 1/2-in. pots	.17	.15	(SURPLUS: Excellent quality	.12	.10	Toovey (Crape Myrtle)	.20	.18
2 1/2-in. pots	.18	.17	at real BARGAIN PRICES.)	.12	.10	<i>Liquidambar styraciflua</i>	.07	.06
<i>Hex crenata horizontalis douglasii</i>			2 1/2-in. pots	.10	.08	(Sweet Gum Tree)	.10	.08
2 1/2-in. pots	.20	.18	6 to 8-in. beds, well-br.	.12	.10	8 to 12 ins., S.	.07	.06
<i>Hex crenata japonica procumbens</i>						12 to 15 ins., S.	.10	.08
2 1/2-in. pots	.27	.25				<i>Hedera helix</i> (English Ivy)	.16	.15
<i>Hex crenata sabina tamariscifolia</i>						2 1/2-in. pots	.18	.16
2 1/2-in. pots	.22 1/2	.20						
2 1/2-in. pots	.25	.22 1/2						
<i>Hex crenata virginiana burki</i>								
compacta								
See description in B&B list.								
2 1/2-in. pots	.27	.25						
<i>Hex crenata virginiana keteleeri</i>								
2 1/2-in. pots	.22	.20						
<i>Hex crenata cuspidata</i>								
2 1/2-in. pots	.19	.17						
2 1/2-in. pots	.20	.18						

SPECIAL NOTICE: Items marked by (*) will be available for delivery spring of 1960. All items not so marked are ready for immediate or later shipment to suit customer's requirements.

T. G. OWEN & SON, INC.

Columbus, Miss.

LINING-OUT STOCK

Well Grown — Root Pruned and Topped Last Spring — Good Grades

Azaleas
2-yr., beds each, 15c
3-yr., beds each, 20c

Varieties as follows: Beacon, 2 and 3-yr., Claret, 2 and 3-yr., Ethelwyn, 2-yr., Fashion, 2 and 3-yr., Flame, 2-yr., Gaiety, 2 and 3-yr., Glacier, 2 and 3-yr., Greeting, 2 and 3-yr., Herbert, 2 and 3-yr., Hinodegiri, 2-yr., Isabel, 2-yr., Kaempferi, 2 and 3-yr., Melanie, 2 and 3-yr., Remembrance, 2-yr., Rose Bud, 2-yr., Treasure, 2-yr., Macrantha, 2-yr., Sherwood Pink, 2 and 3-yr., Snow, 2 and 3-yr., Souvenir, 2 and 3-yr., Swan Song, 3-yr., Winner, 2 and 3-yr.

Abies balsamea
3-yr., T. 20c

Ilex crenata convexa
3-yr. 17½c
2-yr. 15c

Ilex crenata helleri
3-yr. 17½c
2-yr. 15c

Ilex crenata rotundifolia
3-yr. 17½c
2-yr. 15c

Juniper, Armstrong, dwarf
3-yr. 25c
2-yr. 17½c

Juniper, Heltz
3-yr. 25c
2-yr. 17½c

Laurocerasus schipkaensis
3-yr. 20c
2-yr. 17½c

Osmanthus aquifolium
3-yr. 15c
2-yr. 15c

Osmanthus fortunei
2-yr. 15c

Taxus baccata repandens
2-yr. 27½c

Taxus cuspidata
3-yr. 22½c
2-yr. 17½c

Taxus capitata
3-yr., S. T. 20c

Taxus, Lynch, No. 1, dwarf spreading
2-yr. 30c

Taxus, semiglobe
2-yr. 30c

Taxus browni
3-yr. 22½c
2-yr. 17½c

Taxus, Hatfield, upright
2-yr. 17½c

Taxus hicksi
3-yr. 22½c
2-yr. 17½c

Taxus, Vermeulen
2-yr. 17½c

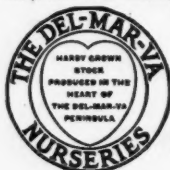
Thuja Occidentalis globosa
3-yr. 15c

Thuja Occidentalis pyramidalis
3-yr. 15c

Tsuga canadensis
2-yr. 25c

All stock is listed by the number of years that it has been growing in outside beds. Terms of sale: All prices F.O.B. Lincoln, Del. All orders must be accompanied by cash or 25% deposit and balance C.O.D. or satisfactory credit references.

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Phone: GArden 2-4445 Lincoln, Del.
(Our 34th Year)

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY, INC.

Box 196, Huntington Station, N. Y.

CANADIAN HEMLOCK BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.

Trade list on request.

R. M. COLE

Box 37 Charlotte, Vt.

NURSERY STOCK

Per 100 Per 1000

Red-leaved Barberry		
2-yr., S., 9 to 12 ins..	\$ 6.50	\$50.00
2-yr., S., 12 to 18 ins..	10.00	75.00
Row run, 9 to 18 ins..	7.50	60.00
Cornus florida (White Dogwood)		
1-yr., S., budding size.	6.00	50.00
1-yr., S., below budding size	4.50	35.00

Ask for list.

BROUWER'S NURSERIES

Box 25 New London, Conn.

B&B EVERGREENS

Hemlock Pfitzer Juniper Globe Arborvitae

Nursery located north end of Broad Brook on Connecticut Highway No. 140.

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Nurseryman
Broad Brook, Conn.

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Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

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P. O. Box 336 MILFORD, DEL.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.

LITTLE SILVER, N. J.

faceted parking areas, tasteful signs and neat and weed-free grounds. Permanent, low-maintenance improvements, he remarked, make good capital investments for excess profits. Taxes are lower; value is higher, and eye appeal is created.

William F. Mills, Jr., executive director, Long Island better business bureau, explained the organization and financing of the new bureau. Organization is going forward rapidly, and the office is expected to be in operation with a staff of seven or more people within the near future.

Planting Methods

Discussing "Successful Methods for Planting," Prof. Harvey Gray, Cornell University, Ithaca, N. Y., suggested that, instead of planting large shrubs for immediate effect, it is often better economy to use smaller but fresh, vigorous and well-conditioned plants. Oxygen for good root action is assured if good drainage and soil porosity are provided. Humus is the better conditioner for clay soils and fibrous peat moss is better for lighter soils.

He recommended digging a planting hole twice the diameter of the ball being planted and using no fertilizer in the backfill. A soil ring larger than the completed pit should be made, and a complete fertilizer should be applied to the surface and scratched in. The new plant is then thoroughly soaked, and soluble components of the fertilizer are carried down to the roots as a starter solution. Contrary to general opinion, Professor Gray noted, part of superphosphate is in the monocalcium form, which is water soluble at the time of application.

Panel on Equipment Use

"Design and Efficient Use of Equipment," a panel discussion, was then introduced by Prof. Robert Dennison, who outlined some precepts of equipment design: (1) Analyze the problem by breaking it down into separate functions, (2) use standard materials and avoid too close tolerances, (3) make it light and (4) make it compact.

Panelist Dick Lauchner, Lauchner Motors, suggested that many standard pieces of agricultural equipment are adaptable for new uses and that it is unnecessary, in many cases, to design special equipment.

James (Carl) Scheuer told of using a double-tined, side-delivery hay rake for windrowing stones on a land fill reclamation project. When followed by a stone picker, the rake made it possible to prepare the

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More and more nurserymen and florists are producing bigger profits and better plants with Perl-Lome

Professionally-tested, professionally accepted Perl-Lome Horticultural Perlite has been proven ideal for propagating cuttings, germinating seeds, container growing, mulching and packaging and protecting plants. Perl-Lome provides a wide safety margin for water dosage, permits water and air penetration through the media, yet retains sufficient moisture (about 4 times its weight in water) for maximum plant growth. It is weed and disease free—eliminates need for sterilization. Perl-Lome does not break down or get soggy and is easy to handle (weighs about 8 lbs. per cu. ft.).

All these advantages add up to higher quality production and lower operating and shipping costs—all essential factors to assure greater profits. Investigate and use Perl-Lome Horticultural Perlite now.

BIG PROMOTION AIDS TO BOOST CONSUMER SALES

A new promotion package is now available to help you build consumer sales and profits—including new newspaper mat ads, store displays, literature and publicity. In addition, advertisements in garden magazines will reach the cream of the home gardeners—all potential customers for you! Get ready now for the Spring selling season. You can get the details from your Perl-Lome representative or write to the Perlite Institute.



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Seedlings and Transplants

SCOTCH PINE

(<i>Pinus sylvestris</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 2 to 3 ins....	\$ 7.50	
(2-0), 2-yr., S., 4 to 6 ins....	\$ 2.75	17.50
(3-0), 3-yr., S., 8 to 15 ins...	4.25	27.50
(2-2), 4-yr., T., 10 to 18 ins..	6.00	40.00
(2-3), 5-yr., T., 12 to 24 ins..	8.25	55.00

WHITE PINE

(<i>Pinus strobus</i>)		
(2-0), 2-yr., S., 4 to 8 ins....	3.00	20.00
(3-0), 3-yr., S., 5 to 10 ins...	4.50	30.00
(2-1), 3-yr., T., 3 to 6 ins....	6.75	45.00
(2-2), 4-yr., T., 6 to 14 ins...	8.25	55.00

COLORADO BLUE SPRUCE

(<i>Picea pungens</i>)		
(2-0), 2-yr., S., 3 to 6 ins....	3.75	25.00
(3-0), 3-yr., S., 4 to 8 ins....	6.75	45.00
(3-0), 3-yr., S., 6 to 12 ins...	8.25	55.00
(2-2), 4-yr., T., 6 to 10 ins...	12.00	80.00

NORWAY SPRUCE

(<i>Picea abies</i>)	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 6 ins....	\$ 3.50	\$22.50
(3-0), 3-yr., S., 8 to 16 ins...	5.25	35.00
(2-2), 4-yr., T., 8 to 15 ins...	9.00	60.00
(2-3), 5-yr., T., 10 to 20 ins..	12.00	80.00

DOUGLAS FIR

(<i>Pseudotsuga taxifolia</i>)		
(2-0), 2-yr., S., 4 to 7 ins....	4.25	27.50
(3-0), 3-yr., S., 5 to 12 ins...	6.75	45.00
(3-2), 5-yr., T., 8 to 14 ins...	12.00	80.00

CANADIAN HEMLOCK

(<i>Tsuga canadensis</i>)		
(2-1), 3-yr., T., 4 to 6 ins....	10.50	70.00
(3-1), 4-yr., T., 5 to 12 ins...	12.00	80.00

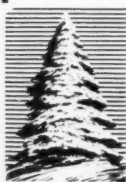
WHITE-FLOWERING DOGWOOD

(<i>Cornus florida</i>)		
(2-0), 2-yr., S., 12 to 18 ins..	7.50	50.00
(3-0), 3-yr., S., 24 to 30 ins..	12.00	75.00

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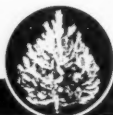
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PLANTING STOCK



Partial listing shown. Complete range of sizes in these and many other species available.

COLORADO BLUE SPRUCE	Per 100	Per 1000
3-yr., S., 8 to 12 ins.....	\$ 9.00	\$60.00
2-yr., S., 4 to 8 ins.....	6.00	40.00
4-yr., T., 5 to 10 ins.....	12.00	80.00
NORWAY SPRUCE		
3-yr., S., 7 to 11 ins.....	5.50	35.00
5-yr., T., 12 to 20 ins.....	9.00	65.00
VEITCHI FIR		
3-yr., S., 3 to 5 ins.....	6.00	35.00
DOUGLAS FIR, Blue Strain, Colorado Origin		
2-yr., S., 4 to 8 ins.....	6.00	40.00

CANADIAN HEMLOCK	Per 100	Per 1000
3-yr., S., 4 to 8 ins.....	\$ 7.00	\$40.00
5-yr., T., 12 to 16 ins.....	35.00	....
CONCOLOR WHITE FIR		
3-yr., S., 8 to 11 ins.....	10.00	60.00
5-yr., T., 5 to 10 ins.....	15.00	....
WHITE SPRUCE		
3-yr., S., 7 to 11 ins.....	6.00	40.00
4-yr., T., 8 to 11 ins.....	8.00	60.00
WHITE or RED PINE		
3-yr., S., 5 to 10 ins.....	5.00	30.00

New Sun Pride, 2-yr., S., 5 to 9 ins., \$4.50 per 100; \$25.00 per 1000

French, Special or Danish, 3-yr., S., 8 to 12 ins., \$5.50 per 100; \$35.00 per 1000

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ground with a minimum of hand labor.

The use of a rear-mounted cultivator and a leveling board for easy grading of soil fill around housing projects was also described, and several types of row crop vegetable weeders were discussed as possibilities for nursery use.

Urges Preventive Maintenance

Panelist Ralph Shannon, Swan River Nursery, Patchogue, told how he uses potato diggers for harvesting certain types of deciduous shrubs. He also emphasized the value of preventive maintenance and, in particular, the importance of frequent oil changes for small motorized equipment. Increases of 11 per cent in power and of 14 per cent in gasoline economy through the use of new and clean spark plugs were cited as benefits to be obtained.

Prof. Harvey Gray told of the unsolved problem of preparing soil pockets for nursery planting of ericaceous plants. Some design work has been done along this line. Interest was shown in compactly designed, German-made nursery cultivators and knapsack sprayers.

A second panel discussion, "Finding the Profit in the Lawn Business," was moderated by Robert Brewster, Suffolk county extension service. Panelist Robert Gettinger, Country Gardens, Glens Falls, giving the landscape contractor's view, said that soil-building additives are regarded as an investment in job satisfaction. Bulk humus is favored over baled peat moss for large contracts, but, when the latter is used, a rate of four bales to 1,000 square feet is recommended. A complete soil analysis is always made before doing any job.

Edward Robinson, Bethpage, prefers the cyanamid method of soil preparation for home lawn construction. Lime, peat moss and superphosphate are tilled in before grading. Then 75 pounds of calcium cyanamid to 1,000 square feet is applied for weed seed control and for residual fertilization. The recommended time for this operation on Long Island is between July 15 and September 10.

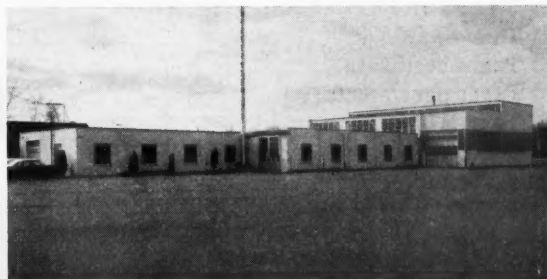
Dr. John Cornman, Cornell University, discussed crabgrass control trials with PMAS and DSMA (disodium methyl arsonate) at Salisbury park. Applications are relatively expensive. A bulletin on the subject is forthcoming from Cornell in the near future.

Panelist George Hren, Anton Hren Nursery, Huntington Station, prefers sodding in his planting contracts. As advantages of the practice, he

MARCH 1, 1960

43

Now Cut Costs on Large Lawn Jobs

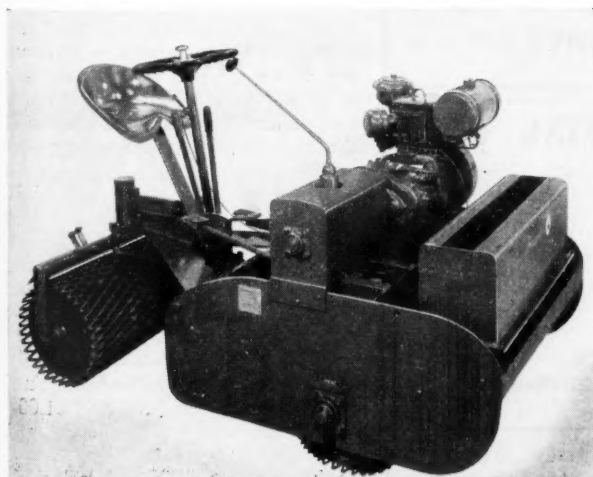


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1. Close 3 point hitch for easy maneuvering and confined seeding.
2. Will loosen soil, float, fertilize, crush lumps, seed, rake seed, and leave a beautiful finish, all in one operation.

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4. Extra large capacity hoppers.
5. Stainless steel to prevent corrosion and eliminate constant cleaning.
6. Trailer available to unload and load with tractor 3 point hitch.



This machine will go any place that your tractor will go, it can be used on small jobs but has the large capacity needed for the large job.

Also available 2 and 3 foot self propelled seeding machines that will eliminate most of the hand work and soil preparation on both small and large jobs. They will install the finest lawn possible. Can be converted to a power roller.

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5-yr., Twice Transplanted	100 rate	1000 rate
<i>Taxus hatfieldi</i>	\$75.00	\$700.00
<i>Taxus cuspidata</i>	65.00	600.00
<i>Taxus nana erecta</i>	75.00	700.00
<i>Taxus Halloran</i>	65.00	600.00
<i>Taxus mooni</i>	75.00	700.00
<i>Taxus hicksi</i>	65.00	600.00
<i>Taxus thayerae</i>	65.00	600.00

4-yr., Twice Transplanted		
<i>Taxus andersoni</i>	60.00	550.00
<i>Taxus cuspidata</i>	50.00	450.00
<i>Taxus nana erecta</i>	60.00	550.00
<i>Taxus densiformis</i>	60.00	550.00
<i>Taxus hicksi</i>	50.00	450.00
<i>Taxus browni</i>	60.00	550.00
<i>Taxus hatfieldi</i>	60.00	550.00
<i>Taxus Halloran</i>	50.00	450.00

2-yr., Once Transplanted		
<i>Taxus andersoni</i>	30.00	250.00
<i>Taxus cuspidata</i>	30.00	250.00
<i>Taxus hicksi</i>	30.00	250.00
<i>Taxus Halloran</i>	30.00	250.00

QUANTITY PRICES

On 2-yr., once transplanted, order of 2500 plants or more,
\$200.00 per 1000 shall apply.

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	Per 1000 rate
<i>Gleditsia triacanthos inermis</i>	
6 to 7 ft.	\$1.50
5 to 6 ft.	1.10
<i>Acer platanoides</i>	
7 to 8 ft.	1.90
6 to 7 ft.	1.50
1½ to 1¾-in. cal.	4.25

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MORRISVILLE, PA.

cited more profit, a longer operating season, quicker payments, a shorter guarantee period and easy availability of sod on Long Island. Panelist John P. Kean, landscape contractor, prefers to leave lawn spraying contracts for weed and fungus control to spraying specialists.

Prof. Frank A. Pearson, emeritus, Cornell, traced the reasons for the long period of prosperity that nurserymen are now enjoying in his address, "The Booming Nursery Business." Rising prices and a continued building shortage are the keys to the situation. Professor Pearson offered a word of caution for the near future, however, advising nurserymen to beware of a period in which building slackens and prices decline. Businessmen who can convert to cash and keep ahead on collections, he stated, will be in a safer position to weather any change.

Prof. Joseph Roesch, State University Agricultural and Technical Institute, speaking on foundation planting, stressed simplicity in design and the importance of texture and proper scale in the selection of plants. He illustrated the steps in planting design, noting that elevation sketches and simple perspective are used as a means of showing clients how a planting should appear. In closing, Professor Roesch asserted that standardized plans cannot solve problems of planting the new and different home of today.

Records Needed for Profit

Hewlett Lewis, Lewis & Valentine Nurseries, Inc., Greenvale, ranged over many aspects of successful landscape business operation in a talk entitled "Are We Turning a Profit?" Emphasizing that good records are vital to success in business, Mr. Lewis advised that the services of an accountant in setting up books and making frequent evaluations of the business help to show where costs and profits occur.

Time sheets for labor should be simple to keep and record, and they will demonstrate that the lowest-priced labor is not the most profitable, the speaker remarked. Job cost records are necessary as an aid in estimating new work.

Mr. Lewis has found that the greatest percentage of profit is gained from jobs between \$200 and \$1,000. Bigger jobs carry a smaller margin of profit, and smaller jobs are of doubtful worth. The type of selling one does depends upon his sales area. One should choose his market and build up a business identity that will appeal to that market.

Regarding purchasing, Mr. Lewis

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Heavyweight pulling power

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Ford Workmaster tractor has power aplenty to take a 5-gang mower up the slopes of this Dallas, Texas, golf course. Yet its big "button tread" tires and balanced weight distribution solve that old bugaboo of all grounds keepers—turf compaction.

No part of this Ford tractor exerts as much weight on a given spot of turf as the heel of a well-built golfer (or for that matter, a lean and wiry caddy with 14-club bag).

Mowing is only one of the many jobs Ford masters for grounds main-

tenance people everywhere. Equipped with other attachments, it loads, dozes, digs, sweeps, handles dozens of jobs around the clock and around the calendar.

Versatility, economy, featherweight footwork and heavyweight lugging power—any or all of these features plus Ford's new "shift-on-the-go" Select-O-Speed might be helpful on your job. Why not talk to your dealer, or write to Industrial Tractor and Equipment Department, Ford Motor Company, Birmingham, Michigan.

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<i>Acer palmatum atropur-</i>	10	100	<i>Juniperus chinensis Mount-</i>	10	100
<i>pureum Bloodgood</i>	\$7.50	\$65.00	<i>batten</i>	\$6.50	\$55.00
<i>Acer palmatum atropur-</i>			<i>Juniperus chinensis sargentii</i>	6.50	55.00
<i>pureum Oshiu-Ben</i>	7.50	65.00	<i>Juniperus chinensis sargentii</i>		
<i>Acer palmatum dissectum</i>	7.50	65.00	<i>glauca</i>	6.50	55.00
<i>Acer palmatum dissectum</i>			<i>Juniperus scopulorum</i>		
<i>atropurpureum</i>	7.50	65.00	<i>Blue Haven</i>	6.50	55.00
<i>Acer platanoides columnare</i>	7.50	65.00	<i>Juniperus scopulorum</i>		
<i>Acer platanoides Faassen's</i>			<i>Hess', spreading</i>	6.50	55.00
<i>Black</i>	7.50	65.00	<i>Juniperus squamata meyeri</i>	6.50	55.00
<i>Acer rubrum columnare</i>	7.50	65.00	<i>Juniperus virginiana burki</i> ...	6.50	55.00
<i>Acer saccharum</i>			<i>Juniperus virginiana canaertii</i>	6.50	55.00
<i>monumentale</i>	7.50	65.00	<i>Juniperus virginiana</i>		
<i>Cedrus atlantica glauca</i>	7.50	65.00	<i>elegantissima</i>	6.50	55.00
<i>Chamaecyparis obtusa</i>			<i>Juniperus virginiana glauca</i> ...	6.50	55.00
<i>compacta</i>	6.00	50.00	<i>Juniperus virginiana globosa</i>	6.50	55.00
<i>Chamaecyparis obtusa</i>			<i>Juniperus virginiana</i>		
<i>gracilis</i>	6.00	50.00	<i>pyramidaliformis hillii</i>	6.50	55.00
<i>Cornus florida alba plena</i>	6.50	55.00	<i>Juniperus virginiana schottii</i>	6.50	55.00
<i>Cornus florida pendula</i>	6.50	55.00	<i>Magnolia rustica rubra</i>	7.50	65.00
<i>Cornus florida rubra</i>	6.50	55.00	<i>Magnolia soulangeana</i>	7.50	65.00
<i>Cornus florida rubra Prosser</i>			<i>Magnolia soulangeana nigra</i> ...	7.50	65.00
<i>(Red-Flowering Dogwood)</i>	7.50	65.00	<i>Magnolia stellata</i>	7.50	65.00
<i>Cornus kousa chinensis</i>	6.50	55.00	<i>Magnolia stellata rubra</i>	7.50	65.00
<i>Cupressus arizonica garceli</i> ...	6.50	55.00	<i>Magnolia stellata Water Lily</i>	7.50	65.00
<i>Fagus sylvatica asplenifolia</i> ...	6.50	55.00	<i>Parrotia persica</i>	6.50	55.00
<i>Fagus sylvatica fastigiata</i> ...	6.50	55.00	<i>Pinus cembra</i>	7.00	60.00
<i>Fagus sylvatica heterophylla</i>	6.50	55.00	<i>Thuja orientalis aurea nana</i> ...	5.50	45.00
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<i>Fagus sylvatica riversii</i>	6.50	55.00	<i>Thuja orientalis</i>		
<i>Hamamelis mollis</i>	6.50	55.00	<i>elegantissima</i>	5.50	45.00
<i>Ilex aquifolium pernyi</i>			<i>Tsuga canadensis pendula</i> ...	6.50	55.00
<i>female</i>	7.50	65.00			
<i>Ilex aquifolium pernyi</i>					
<i>male</i>	7.50	65.00			
<i>Ilex opaca femina</i>	7.50	65.00			
<i>Hookstraw—Judge Brown</i>					
<i>—Miss Helen</i>					
<i>Ilex opaca mascula</i>	7.50	65.00			
<i>Ilex opaca mascula Brown</i>					
<i>No. 9</i>	7.50	65.00			
<i>Ilex pedunculosa</i>	7.50	65.00			
<i>Juniperus chinensis</i>					
<i>columnaris glauca</i>	6.50	55.00			
<i>Juniperus chinensis</i>					
<i>columnaris viridis</i>	6.50	55.00			
<i>Juniperus chinensis ketelerei</i>	6.50	55.00			
<i>Juniperus chinensis Maney</i> ...	6.50	55.00			

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<i>Fagus sylvatica purpureo-pendula</i> ...	1.00
<i>Fagus sylvatica Tricolor</i>	1.00
<i>Magnolia conspicua</i>	1.00
<i>Magnolia cordata</i>	1.00
<i>Magnolia sieboldi parviflora</i>85
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<i>Pinus strobus fastigiata</i>80
<i>Pinus strobus nana</i>80
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advised that knowing one's sources of supply saves time and money. The Landscape Materials Information Service is valuable in this respect. Among other factors mentioned that make for increased profits in landscape work were the following: Proper job organization; right timing; assembly of materials, tools and equipment, and proper planting procedures, including careful attention to drainage.

In conclusion, Mr. Lewis stressed that bills should be presented immediately on job completion and that complaints should be settled promptly. A prospective customer's credit should be investigated adequately, although bad debts in private landscape work are negligible. The risk is greater in commercial contract jobs.

Architect-Contractor Panel

During a panel discussion in which landscape architects and landscape contractors exchanged views, Robert Schreiner, landscape architect and site planner, noted that landscape architecture is no longer a grand-scale occupation. The term is now more generally used.

A landscape architect plans and develops land for its best use. His training is academic schooling and experience. A knowledge of design, drafting, construction, earth moving and horticulture is needed. The professional landscape architect makes no profit on materials or labor. He represents the client in accomplishing the work and defines the whole job to the client.

The American Society of Landscape Architects has established minimum standards for the profession. Poor quality militates against the whole industry, and the industry must guard against it.

Joseph Clark, landscape plantsman, Lewis & Valentine Nurseries, Inc., cited the following as some of the problems of performing work: Scarcity of adequate help and efficient supervision, dependence on weather conditions and the length of time often required for locating and assembling materials.

The landscape architect is most helpful in contributing to a good job when he knows plant materials, their adaptation, availability of material, grading of material and sources of supply. Soil conditions loom importantly. Achieving the desired scale with available materials is always a concern.

Panelist Al Manfre, landscape architect, Innocenti & Webel, Roslyn, stated that the relationship between the landscape architect and the



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Amoenia	Each	Addy Wery	Each
8 ins.	\$0.75	8 ins.	\$1.00
10 ins.	1.00	10 ins.	1.25
12 ins.	1.25	12 ins.	1.50
Coral Bells		15 ins.	2.50
8 ins.	.75	18 ins.	3.50
10 ins.	1.00	Daybreak, Kurume	
12 ins.	1.25	8 ins.	.75
Hinodegiri		10 ins.	1.00
Our Hinos are very dark red.		12 ins.	1.25
8 ins.	.75	15 ins.	2.00
10 ins.	1.00	18 ins.	2.50
12 ins.	1.25	Favorite	
15 ins.	2.00	8 ins.	.75
18 ins.	2.50	10 ins.	1.00
20 ins.	3.50	12 ins.	1.25
24 ins.	5.00	15 ins.	2.00
30 ins.	6.00	18 ins.	2.50
36 ins.	7.50	Polaris	
Orange Beauty, Kurume		8 ins.	.75
8 ins.	.75	10 ins.	1.00
10 ins.	1.00	12 ins.	1.25
12 ins.	1.25	Beethoven	
15 ins.	2.00	8 ins.	.75
Hino-Crimson		10 ins.	1.00
8 ins.	.75	12 ins.	1.25
10 ins.	1.00	15 ins.	2.00
12 ins.	1.25	18 ins.	2.50
15 ins.	2.00	20 ins.	3.50
Snow		Johann Strauss	
8 ins.	.75	8 ins.	.75
10 ins.	1.00	10 ins.	1.00
12 ins.	1.25	12 ins.	1.25
Ledifolia Alba		15 ins.	2.00
8 ins.	.75	18 ins.	2.50
10 ins.	1.00	20 ins.	3.50
12 ins.	1.25	Lilacina	
15 ins.	2.00	8 ins.	.75
18 ins.	2.50	10 ins.	1.00
20 ins.	3.50	12 ins.	1.25
Maxwell		15 ins.	2.00
8 ins.	.75	18 ins.	2.50
10 ins.	1.00	20 ins.	3.50
12 ins.	1.25	24 ins.	6.00
15 ins.	2.00	Kuramperi	
18 ins.	2.50	Hardest of all azaleas; sheared, well-budded, heavy.	
Louise Gable		Othello, Salmon Beauty, Fedora and Carmen	
8 ins.	1.00	8 ins.	.75
10 ins.	1.25	10 ins.	1.00
12 ins.	1.50	12 ins.	1.25
Rose Bud		15 ins.	2.00
8 ins.	1.00	18 ins.	2.50
10 ins.	1.25	20 ins.	3.50
12 ins.	1.50	24 ins.	6.00
Rose Greely		30 ins.	6.00
8 ins.	1.00	36 ins.	7.50
10 ins.	1.25		

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contractor is similar to that between the physician and the pharmacist. Each has an area of responsibility and does not transgress on the other. Plant perfection is easier to measure than design perfection. Jobs are more often criticised on the basis of scale.

It is the nurseryman's responsibility to carry out a plan to the letter or else to inform the architect of impediments. Substitution of materials is hurtful if the nurseryman is inclined to promote the use of stock which he has in good supply.

Causes of Friction

Donald Pollitt, landscape contractor, Landscape Associates, Brookville, brought out some of the practices that cause friction in the landscape architect-contractor relationship, such as the use of symbols that exaggerate the plant scale in a drawing (customers belabor the contractor on this score), payment by units of work rather than for the entire contract (payments are often delayed for minor causes that have no relation to the main part of the job), overinsistence on precision placement of all plants and lack of co-operation on guarantees (the architects at times could be more helpful in cases of bona fide winter injury for which the contractor is not responsible).

Harry Iurka, senior landscape architect, New York state department of public works, discussed the design of highways as well as the landscape aspects of the subject. Well-designed roads combine safety, low maintenance and aesthetic appeal.

Planting should reduce glare, baffle noise, screen unsightly views and frame appealing vistas. Play areas, cycling paths and other amenities are part of good design. Wide median strips, paved shoulders and lighted and marked intersections are safety features of the better highways.

Slopes are more easily maintained when kept in turf. Dense shrubs are less satisfactory than clumps of small trees. Maintenance is a major consideration in deciding on the landscape treatment of new roads. Flowering and fruiting plants become attractive nuisances and are avoided. Plants that are well armed and ecologically adapted to New York, such as hawthorn and some crab apples, are effective when used in simple masses and proper scale.

During highway construction in the state, existing trees along right of ways are removed if closer than 20 feet to the road. Remaining trees are thinned and pruned. When grades around existing trees have to be raised or lowered, it is wiser to

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	Plain Per 1000	Treated Per 1000
12x12 ins.	\$16.00	\$ 23.00
14x14 ins.	18.00	25.00
16x16 ins.	22.00	32.00
18x18 ins.	25.00	39.00
20x20 ins.	27.50	43.00
22x22 ins.	32.50	50.00
24x24 ins.	38.00	57.00
26x26 ins.	45.00	64.00
28x28 ins.	52.50	75.00
30x30 ins.	58.00	85.00
32x32 ins.	65.00	95.00
36x36 ins.	75.00	109.00
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45x45 ins.	97.50	136.00
48x48 ins.	105.50	149.00

Rectangles and other sizes on request.

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30 ins.	6 1/2c	48 ins.	9 1/2c
32 ins.	7c	54 ins.	12c
36 ins.	8c	60 ins.	13 1/2c
40 ins.	8 1/2c	72 ins.	16 1/2c
45 ins.	9c	80 ins.	19c

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If your order is placed in time we may be able to include it in a pool car to your area and save transportation costs.

	Each Per 10	Each Per 100		Each Per 10	Each Per 100
BARBERRY			FORSYTHIA—Continued		
Green (thunbergi)			Spectabilis		
12 to 15 ins.	\$0.23	\$0.21	3 to 4 ft.	\$0.43	\$0.39
9 to 12 ins. ....	.18	.16	2 to 3 ft. ....	.33	.29
Red-Leaved (thunbergi atropurpurea)			18 to 24 ins. ....	.28	.24
12 to 15 ins. ....	.22	.20	Spring Glory		
BUDDLEIA			3 to 4 ft. ....	.43	.39
Charming, No. 1 ....	.31	.29	2 to 3 ft. ....	.33	.29
COTINUS COGGYGRIA			18 to 24 ins. ....	.28	.24
(Smoke Bush)			HYDRANGEA		
Atropurpurea , 2-yr., from selected			Arboreasens grandiflora		
red-leaved seedlings			12 to 18 ins., 2-yr., field-		
12 to 18 ins. ....	.60	.55	grown	.30	.26
DEUTZIA			Domotoi		
Gracilis			No. 1 ....	.48	.44
15 to 18 ins. ....	.38	.36	Nikko		
12 to 15 ins. ....	.29	.27	No. 1 ....	.48	.44
Gracilis rosea			PRIVET		
15 to 18 ins. ....	.38	.36	California		
12 to 15 ins. ....	.34	.30	2 to 3 ft. ....	.17	.15
Lemoine			18 to 24 ins. ....	.14	.12
2 to 3 ft. ....	.38	.34	Regel's		
15 to 18 ins. ....	.28	.24	18 to 24 ins. ....	.30	.27
EUONYMUS			SPIRAEA		
Radicans			Freibell		
18 to 24 ins. ....	.65	.60	2 to 3 ft. ....	.30	.26
15 to 18 ins. ....	.60	.55	18 to 24 ins. ....	.28	.24
12 to 15 ins. ....	.50	.45	VIBURNUM		
Vegetus			Opulus nanum		
12 to 15 ins. ....	.55	.50	4-yr., clumps ....	.58	.54
FORSYTHIA			WEIGELA		
Lynwood Gold			Eva Rothke		
2 to 3 ft.53	.49	18 to 24 ins.34	.30
18 to 24 ins.43	.39	12 to 18 ins.30	.26
			Variegata nana		
			15 to 18 ins.35	.30

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	Per 1000
Austrian Pine, 4-yr. transplants (2-2), 8 to 15 ins.	\$ 70.00
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Douglas Fir, 2-yr. seedlings (2-0), 2 to 4 ins.	30.00
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Scotch Pine (Spanish), 2-yr. seedlings (2-0), 4 to 8 ins.	25.00
White Pine, 2-yr. seedlings (2-0), 3 to 5 ins.	25.00
Colorado Blue Spruce, 4-yr. seedlings (4-0), 6 to 12 ins., root pruned.	50.00
Norway Spruce, 3-yr. seedlings (3-0), 4 to 8 ins.	30.00
European Larch, 2-yr. seedlings (2-0), 4 to 10 ins.	30.00
Japanese Black Pine, 2-yr. seedlings (2-0), 3 to 6 ins.	25.00

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Azaleas—both budded and lining-out stock—are our specialty. See our classified ads.

sacrifice the trees, because they invariably suffer and die. Exceptional specimens of note are sometimes saved by walling or welling.

New trees are selected from proved species which are adapted to the local conditions. Trees of 10 to 12 feet or less are planted and pruned severely. Wood chip mulches and herbicides help to maintain newly established trees. Out-of-state nursery plants from as far as Virginia and Texas have proved hardy.

Requirements for turf are not so rigorous on highways as on parkways. By official definition, a stand of grass consists of permanent grass species that provide a 70 per cent cover.

Floriade

Carl F. Wedell, former president of the American Horticultural Council and director of the American pavilion at the Floriade, told of plans for this horticultural exposition to be held at Rotterdam, Holland, March 26 to September 26.

Congress has granted \$150,000, and about \$250,000 is pledged by American contributors for the American exhibit, which will feature a model middle-class home with contemporary landscape and gardens.

Plant collections will include Glenn Dale hybrid dwarf azaleas; All-America flower trials; 57 American plants from the Arnold Arboretum, Jamaica Plain, Mass.; a vegetable garden, and a rose garden. There will be an attached greenhouse. In the pavilion there are to be six transparencies, 4x8 feet, showing scenes of American ornamental horticulture.

Prof. A. M. S. Pridham and Arthur Bing, Cornell University, emphasized the value of chemicals in controlling weeds to reduce production costs. Effective weed control starts with a soil free of actively growing weeds. For small plants grown close together, preplanting soil treatments with steam, methyl bromide or Vapam are well worthwhile because of the additional nematode and disease control they afford.

The best time to treat nursery stock is when it is dormant and the weed seeds are about to germinate—after digging stops in the fall and before it begins in the spring. Band applications over the row cuts down on expense.

Chloro IPC at eight pounds of active material per acre gives good control of purslane, chickweed and seedling grasses, but is not good on established weeds. This rate is equivalent to two gallons of the emulsifiable form in water per acre or 160 pounds of a 5 per cent granular

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Garden Party Never before have you had such a first-year selling story on any rose. Here is the *only* Hybrid Tea to win an All-America Award for 1960. And it is a superbly successful cross of the two greatest roses of the century, Charlotte Armstrong and Peace. Beautiful buds, shapely as Charlotte Armstrong's. Huge, Peace-like, pastel-tinted blooms. A vigorous, easy-to-grow plant. If ever a rose was sure to sell, this is it. Be sure you have plenty!
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formulation per acre. Chloro IPC at high rates has reduced growth of azaleas and may have the same effect on other ericaceous plants.

Simazin gives a much longer-lasting effect, persisting in the soil up to several seasons. On nursery stock, a rate of six pounds of active simazin per acre is usually necessary. This is equivalent to 12 pounds of 50 per cent wettable powder in water or 150 pounds of 4 per cent granular simazin per acre.

There have been instances of temporary injury, but the usefulness far outweighs the possible damage from use of the chemical. Hard hoeing, the speaker pointed out, can also cause considerable damage.

MICHIGAN MERGER

Michigan Christmas Tree Growers Association, Inc., and Federated Christmas Tree Producers, Inc., recently merged, and the joint organization will be known as Michigan Christmas Tree Growers Association, Inc. The combined membership will exceed 500 growers.

Officers of the newly formed association are Clifford R. Gearhart, Gearhart Evergreens, Wolverine, Mich., president; Howard Hunt, Huntree, Saugatuck, Mich., vice-president, and James Risk, Muskegon, treasurer. Executive secretary is Ray Thomas, P. O. Box 208, Bellaire, Mich.

RICHARD S. GUILD, executive director of the Massachusetts Nurserymen's Association, was recently elected a director of the American Society of Association Executives.

LAWRENCE DEAN recently opened Dean's Nursery & Garden Center, 2323 Chambers road, St. Louis 36, Mo.

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No. 1½50	.48	.46	.45	.44

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DWARF NINEBARK

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18 to 24 ins., heavily branched

30c each per 100

25c each per 1000

20c each per 5000 and up

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French Auvergne, good color

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3-yr., S., 12 to 16 ins. 32.50

Austrian Pine

3-yr., S., 8 to 12 ins. 35.00

Norway Spruce

3-yr., S., 7 to 10 ins. 30.00

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We grow and sell hundreds of thousands of evergreen seedlings each year. We have always been sold out before the first of April. We suggest that you order early for our seedlings.

PINE SEEDLINGS

	Per100	Per1000
Scotch Pine, French Auvergne		
(2-0), 2 to 4 ins.	\$ 2.00	\$ 10.00
(2-0), 4 to 7 ins.	3.50	22.50
(3-0), 6 to 8 ins.	4.00	25.00
(3-0), 8 to 12 ins.	5.00	30.00
(3-0), 12 to 18 ins.	6.00	35.00
Scotch Pine, Spanish		
(2-0), 2 to 4 ins.	2.50	12.50
(2-0), 4 to 8 ins.	4.00	25.00
Scotch Pine, Nonyellowing (Herbst)		
(3-0), 8 to 12 ins.	5.00	30.00
(3-0), 12 to 18 ins.	6.00	35.00
Scotch Pine, Austria		
(3-0), 8 to 12 ins.	5.00	30.00
(3-0), 12 to 18 ins.	6.00	35.00
Scotch Pine, Riga		
(2-0), 2 to 4 ins.	2.00	10.00
(2-0), 4 to 8 ins.	3.50	22.50
(3-0), 8 to 16 ins.	5.00	30.00
Scotch Pine, Belgium		
(3-0), 8 to 12 ins.	5.00	30.00
(3-0), 12 to 18 ins.	6.00	35.00
White Pine		
(2-0), 3 to 5 ins.	3.00	15.00
(3-0), 5 to 9 ins.	5.00	30.00
Austrian Pine		
(2-0), 2 to 4 ins.	3.00	15.00
(2-0), 4 to 7 ins.	4.00	25.00
(3-0), 10 to 16 ins.	5.00	30.00
(4-0), 12 to 20 ins.	7.00	40.00
Red Pine		
(2-0), 2 to 4 ins.	3.00	15.00
Ponderosa Pine		
(2-0), 2 to 4 ins.	2.00	10.00
(2-0), 4 to 7 ins.	3.00	15.00
(3-0), 7 to 14 ins.	4.00	25.00
Mugho Pine		
(2-0), 2 to 4 ins.	3.00	15.00
(2-0), 3 to 5 ins.	3.50	25.00
(3-0), 4 to 6 ins.	4.00	30.00

HEMLOCK SEEDLINGS

Hemlock, canadensis, nursery stock	
(2-0), 3 to 6 ins.	SOLD OUT

Scotch Pine for Christmas trees is gaining in popularity all over the country and is soon expected to be the "King" of Christmas trees. We suggest you start your plantation this year.

All stock offered subject to prior sale.

We guarantee all stock represented herein for size and quality, or your money will be cheerfully refunded. Because of many conditions beyond our control, such as delay in shipment, mishandling on arrival, etc., we cannot guarantee survival of seedlings.

ORNAMENTALS: We do not have any ornamentals of any kind or species, balled or bare root.

OUR SEEDLINGS are grown under natural conditions. It has not been necessary for us to force our growing through irrigation or watering of any kind. We endeavor to make our seedlings hardy and able to withstand drought. We do not raise them on beefsteak and expect our customers to grow them later on water and crackers.

5% discount on 20,000 to 34,000. 10% discount on 35,000 and over of combined species.

TERMS OF SALE: All prices are F.O.B. Indiana, Pa. Stock is shipped C.O.D. parcel post or by express. State preference when ordering. All orders must be accompanied by full payment or by 25% deposit with balance before shipment or C.O.D. or satisfactory credit reference.

SPRUCE SEEDLINGS

	Per100	Per1000
Norway Spruce		
(2-0), 2 to 4 ins.	\$ 3.00	\$ 15.00
(2-0), 4 to 8 ins.	4.00	25.00
(2-0), 8 to 10 ins.	5.00	30.00
(3-0), 8 to 12 ins.	6.00	35.00
(3-0), 12 to 20 ins.	10.00	60.00
Black Spruce, Mariana		
(2-0), 4 to 5 ins.	3.00	20.00
(2-0), 5 to 7 ins.	4.00	25.00
(2-0), 7 to 12 ins.	5.00	30.00
White Spruce		
(3-0), 3 to 5 ins.	3.00	20.00
(3-0), 5 to 9 ins.	5.00	30.00
(3-0), 9 to 14 ins.	8.00	50.00
Colorado Blue Spruce		
(3-0), 3 to 5 ins.	3.00	20.00
(3-0), 5 to 9 ins.	6.00	35.00
(4-0), 6 to 12 ins.	10.00	60.00
(4-0), 12 to 14 ins.	SOLD OUT	

NO ENGELMANN SPRUCE THIS SEASON

FIR SEEDLINGS

Douglas Fir		
(2-0), 3 to 5 ins.	3.00	15.00
(3-0), 5 to 8 ins.	6.00	35.00
(3-0), 8 to 12 ins.	8.00	50.00
Balsam Fir		
(3-0), 3 to 5 ins.	4.00	25.00
(3-0), 5 to 7 ins.	6.00	40.00
Fraser Fir		
(3-0), 3 to 5 ins.	SOLD OUT	

NO CONCOLOR FIR THIS SEASON

LARCH SEEDLINGS

Larch, European		
(2-0), 5 to 8 ins.	4.00	20.00
(2-0), 8 to 15 ins.	5.00	30.00
(2-0), 15 to 18 ins.	12.00	80.00

CHESTNUT SEEDLINGS

	Per10	Per100	Per1000
Chestnut, Chinese Ching-Chow			
(1-0), 10 to 18 ins.	\$3.00	\$25.00	\$150.00
(1-0), 18 to 27 ins.	5.00	40.00	.....

NO TRANSPLANTS OF ANY SPECIES AVAILABLE

SCHROTH'S NURSERY

INDIANA, PA.

THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

DECIDUOUS AZALEAS

A great majority of the azaleas grown by nurserymen today are the evergreen forms, of which many varieties are grown in great quantities. They force well, bloom heavily and are attractive landscape plants for their foliage alone. The deciduous azaleas attract less attention for several reasons; as plants they are often spindly, the foliage is not heavy and their attractiveness is largely in their bloom. Furthermore, they have not been propagated heavily because most of the deciduous azaleas that reach trade channels have been collected somewhere in the Appalachian mountains. Many of these forms are, nevertheless, very beautiful and make a fine landscape picture when planted among evergreens or in settings that are particularly suitable. Still another reason why they have not been propagated heavily is that they lend themselves better to seed propagation than propagation from cuttings. Seed propagation, however, has gone out of style as far as most nurserymen are concerned.

Azalea Mollis Most Popular

The deciduous azaleas are both native and exotic. Among the most widely planted Asiatic forms is *Azalea mollis*, a low, compact form with showy flowers in various shades of yellow. This azalea has the added attraction of not being too demanding as to the soil. Since my own nursery is located on soil not exactly ideal for growing azaleas in general, the *A. mollis* is one form I have been giving a trial. About three years ago I planted a small quantity of seeds of this species. The seeds were sown in March in flats of shredded sphagnum, which were placed in a cool greenhouse. The seeds germinated and came up like the proverbial fleas on a dog, at least a thousand or more to a flat.

The seedling plants were potted in small pots when they were an inch or so high and took hold well. I do believe, though, it would be worthwhile to water the sphagnum with liquid fertilizer solution at least once to get sturdier plants. The plants grew well in ordinary potting and bed soil, although they suffered somewhat from the drought of last year. From their behavior I think they can be

grown easily on ordinary fertile soil without too much fussing.

The native pinkster flower, *Azalea nudiflora*, is the only azalea that grows in the eastern Maryland woodlands. I have managed to dig a few and plant them in the nursery, where they have grown satisfactorily. I have never tried to grow *A. nudiflora* from seeds but believe it would do well in ordinary soil.

Flame Azalea Is Showiest

The flame azalea, *Azalea calendulacea*, is the showiest of all the deciduous forms and is one of the plants that makes the Great Smoky mountains so famous for showy flora. The plant's color ranges from orange to red, and it does particularly well in cultivation, although, like most azaleas, it prefers peaty, acid soils. The flame azalea's showiness has been the reason why it has been collected so extensively. I cannot say, however, that I have noticed this plant's be-

ing extensively grown from seed. While there are a few named varieties, there would be no reason not to grow them from seeds, because the plants would not lose their floriferousness and would probably produce a nice range of colors, as does *Azalea mollis*.

Of the other native deciduous azaleas, two or three are of interest. *Azalea vaseyi*, with light rose flowers, is the best, followed by *Azalea viscosa*, with white to pink flowers, and then *Azalea arborescens*, with white to pink flowers but growing too irregularly tall to be really useful.

Next to *Azalea mollis*, the most desirable Asiatic one would probably be *Azalea schlippenbachii*, a fine, medium-flowered shrub with beautiful pink flowers and the added attraction of well-colored fall foliage. It is being grown, but not too extensively.

The deciduous azaleas probably do not have the qualities necessary for making them a "boom" plant, but they are beautiful and can be propagated in quantity easily enough so that they could be more popular than they are and be more widely handled. Another attribute to the plant's credit is its hardiness, so that winter injury is not the problem, as it is sometimes with the evergreen forms. Bark splitting with deciduous

WANTED

BUYERS — For Quality Evergreen Planting Stock.

Our Surplus Is Your Gain!

Scotch Pine (<i>Pinus sylvestris</i>)	Net	Net	Net
	Per 1000	Per 10,000	Per 100,000
2-yr., 2 to 4 ins.	\$10.00	\$ 7.50	\$ 5.00
2-yr., 4 to 8 ins.	20.00	18.00	14.00
3-yr., 8 to 14 ins.	20.00	18.00	14.00
3-yr., 10 to 18 ins.	28.00	24.00	19.00

See our ad elsewhere in this issue for terms, full listing and other details.

CANALE'S FOREST NURSERY

Shelocta, Pa.

20,000 TAXUS

Just right for garden center and the nursery trade.

	Each	
	Per 100	Per 1000
T. wardi, 12 to 16 ins.	\$2.25	\$2.00
T. hatfieldi, 12 to 16 ins.	2.25	2.00
T. browni, 12 to 16 ins.	2.25	2.00
T. capitata, 12 to 16 ins.	2.25	2.00
T. hicksii, 12 to 16 ins.	2.25	2.00
T. henryi, 12 to 16 ins.	2.25	2.00

(The originator's true strain.)

Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave.

BELL ACRE NURSERIES

P. O. Box 597, Easton Ave.

South Bound Brook, N. J.

SCOTCH PINE

Best Varieties
(3-0), 10 to 16 ins.

Must be moved — no reasonable offer refused.

FLICKINGERS' NURSERY

Sagamore 20, Pa.
Phone: Rural Valley, SUNset 3-4068

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PINE
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*This NEW
Model RE
York Rake
grades and
landscapes
better, easier,
faster*

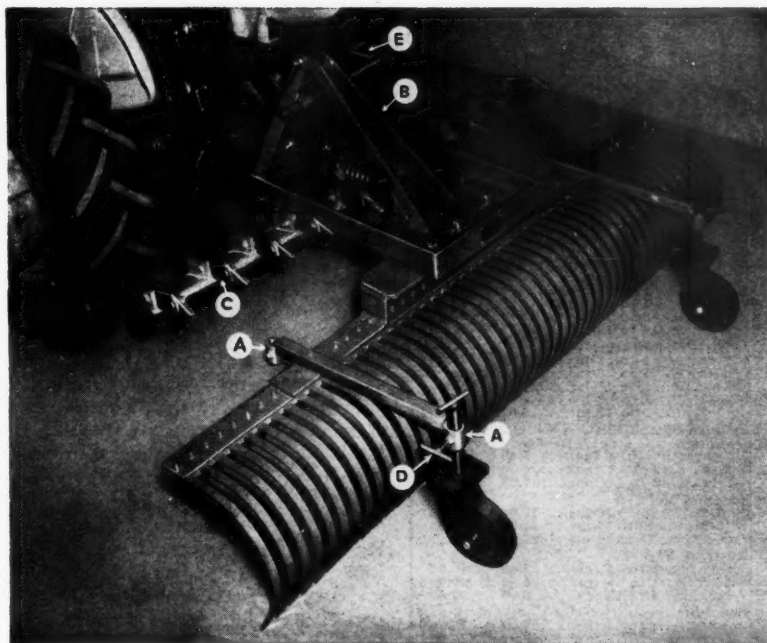


Photo above quickly identifies the advanced features in the new YORK RAKE, MODEL RE: (A) Front and rear caster wheel mounting; (B) Redesigned 3-point hitch frame; (C) Long-wearing, reversible and replaceable Scarifier Teeth; (D) Lift handles and lock screws for wheel adjustment, without tools; (E) Mechanical lift for Scarifier and Grader Blade.

The newly designed YORK RAKE, MODEL RE, gives you YORK'S recognized superior quality plus new features engineered to meet your exacting soil-working and landscaping requirements.

WHAT'S NEW?

1. NEW FRONT-OR-REAR CASTER WHEEL MOUNTING: permits caster wheels to be mounted behind teeth for faster grading of rough terrain ... ahead of teeth for jobs where tire marks would be objectionable.

2. NEW WHEEL ADJUSTMENT: no tools necessary to change caster wheel positions, or make vertical adjustments. Shafts marked at $\frac{1}{2}$ " intervals for quick, accurate positioning.

3. NEW LONG-WEARING SCARIFIER TEETH: reversible and replaceable heat-treated alloy steel points ... give double wear.

4. NEW BLADE LIFT ASSEMBLY: provides for raising and lowering of Grader Blade by means of Scarifier Lift Crank and cable connection.

5. NEW 3-POINT HITCH FRAME: permits all York attachments to be carried permanently on rake.

Caster Wheels, SB Scarifier and Grader Blade offered as optional attachments.

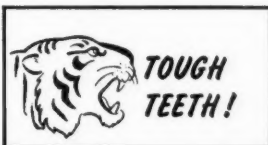
SAVE TIME AND MONEY WITH YORK RAKES

Model RE YORK RAKES fit all 3-point hitch tractors. They're ideal for grading and leveling ... preparing lawns for seeding ... removing stones, sticks, debris ... spreading topsoil, gravel, crushed stone.



Working view of new YORK RAKE, MODEL RE, with rear-mounted caster wheels. Scarifier is in "rest" position.

**DON'T DELAY — ORDER A NEW MODEL RE FOR YOUR 1960 JOBS
... WE CAN DELIVER NOW**



York Rake teeth are tops in toughness. They're made of heat-treated alloy steel ... tested to stand far more strain than they'll ever see in actual use. That's why they eat up big soil-working jobs in a hurry. "York-quality" teeth are made only by York, and used only in York Rakes.



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MODERN CORPORATION
UNADILLA, NEW YORK

Dept. AN-310

Please send complete specifications and prices for:

- ☐ New Model RE YORK RAKE ☐ SB SCARIFIER
☐ GRADER BLADE
☐ Lighter Rakes for use with Light Tractors
☐ Tell me how I can try out a new RE

Make of Tractor.....

Name.....

Company.....

Address.....

Tel. No.

I Sell Trees SAM DIBLE NURSERY

Shelocta, Pa.

Seedlings and Transplants
for Spring

Scotch Pine	Per 100	Per 1000
2-yr., S., 2 to 4 ins....	\$ 2.00	\$ 10.00
2-yr., S., 4 to 8 ins....	4.00	20.00
3-yr., S., 8 to 14 ins....	4.00	20.00
3-yr., S., 10 to 18 ins....	5.50	28.00
French Scotch Pine		
2-yr., S., 1 to 3 ins....	2.00	10.00
2-yr., S., 3 to 6 ins....	4.50	22.50
3-yr., S., 7 to 15 ins....	7.00	35.00
(2-2), T., 5 to 8 ins....	8.00	40.00
(2-2), T., 7 to 12 ins....	15.00	75.00
Spanish Scotch Pine, short needles		
2-yr., S., 1 to 3 ins....	2.00	10.00
2-yr., S., 3 to 6 ins....	4.50	22.50
3-yr., S., 6 to 12 ins....	7.00	35.00
Scotch Pine		
(2-2), T., 5 to 10 ins....	10.00	50.00
(2-2), T., 10 to 15 ins....	15.00	75.00
(2-2), T., 15 to 18 ins....	25.00	....
Austrian Pine		
2-yr., S., 1 to 3 ins....	2.00	10.00
2-yr., S., 3 to 5 ins....	4.00	20.00
3-yr., S., 8 to 15 ins....	6.00	30.00
Red Pine		
2-yr., S., 2 to 4 ins....	3.00	15.00
3-yr., S., 5 to 10 ins....	5.00	25.00
White Pine		
2-yr., S., 1 to 2 ins....	2.00	10.00
2-yr., S., 2 to 4 ins....	3.00	15.00
Mugho Pine, true dwarf		
3-yr., S., 1 to 3-in. spread or height....	7.00	35.00
(2-2), T., 3 to 6-in. spread or height, 25c each		
(2-3), T., 6 to 12-in. spread or height, 50c each		
Colorado Blue Spruce		
3-yr., S., 2 to 4 ins....	2.50	12.50
3-yr., S., 4 to 8 ins....	7.00	35.00
4-yr., S., 6 to 12 ins....	10.00	50.00
4-yr., S., 10 to 16 ins....	17.00	85.00
(3-1), T., 3 to 6 ins....	8.00	40.00
(3-1), T., 6 to 10 ins....	17.00	85.00
(3-1), T., 8 to 12 ins....	25.00	....
(2-2), T., 4 to 8 ins....	15.00	75.00
(2-3), T., 8 to 12 ins....	30.00	150.00
(2-3), T., 12 to 15 ins....	50.00	....
Norway Spruce		
2-yr., S., 2 to 4 ins....	2.00	10.00
2-yr., S., 4 to 8 ins....	4.00	20.00
3-yr., S., 5 to 10 ins....	6.00	30.00
3-yr., S., 8 to 14 ins....	8.00	40.00
(2-2), T., 3 to 6 ins....	8.00	40.00
(2-2), T., 6 to 10 ins....	13.00	65.00
(2-2), T., 10 to 16 ins....	25.00	....
White Spruce		
3-yr., S., 2 to 4 ins....	2.50	12.50
3-yr., S., 4 to 8 ins....	5.00	25.00
(2-3), T., 4 to 8 ins....	10.00	50.00
(2-3), T., 8 to 15 ins....	15.00	75.00
(2-3), T., 15 to 20 ins....	30.00	150.00
Black Hills White Spruce		
3-yr., S., 1 to 3 ins....	2.50	12.50
3-yr., S., 3 to 6 ins....	5.00	25.00
(2-3), T., 3 to 5 ins....	10.00	50.00
(2-3), T., 5 to 10 ins....	15.00	75.00
Douglas Fir, glauca		
3-yr., S., 1 to 3 ins....	3.00	15.00
3-yr., S., 3 to 8 ins....	7.00	35.00
4-yr., S., 5 to 10 ins....	9.00	45.00
4-yr., S., 8 to 13 ins....	15.00	....
(2-2), T., 3 to 7 ins....	10.00	50.00
(2-3), T., 7 to 12 ins....	20.00	....
Concolor Fir		
2-yr., S., 2 to 4 ins....	3.00	15.00
3-yr., S., 4 to 8 ins....	11.00	55.00
Balsam Fir		
2-yr., S., 1 to 2 ins....	3.00	15.00
3-yr., S., 2 to 4 ins....	6.00	30.00
(2-2), T., 3 to 5 ins....	12.50	....
American Arborvitae		
3-yr., S., 2 to 5 ins....	4.00	20.00
Juniperus virginiana		
3-yr., S., 2 to 6 ins....	4.00	20.00
(2-2), T., 10 to 18 ins., 25c each		
Juniperus communis depressa, from seed		
(2-2), T., 3 to 14 ins., 25c each		

Cash or 25% deposit. Balance C.O.D.
500 at 1000 rate.

Write for discount on large orders.

ROOTSPRED TREE PLANTER

azaleas is rare except in subzero weather. Some types even touch southern Canada in their natural range.

NEW ENGLAND MEETING

[Continued from page 10]

Burgess, director of the plant pest control division, agricultural research service, United States Department of Agriculture, plus a colored film on the golden nematode at the morning session.

Also presented was a lively panel discussion on the topic of "Uniform Guarantees for New England Nurserymen," moderated by Willard Bond, Wyman's Garden Centers, Inc., Framingham, Mass., with panelists Anthony Williams; Edward Pagliarini, Warwick Nurseries, Warwick, R. I.; Clifford Corliss, Corliss Bros., Inc., Gloucester, Mass.; Seth Kelsey; Joel Barnes, Barnes Bros. Nursery Co., Wallingford, Conn., and Ludwig Hoffman, Ludwig Hoffman Nursery, Bloomfield, Conn.

Richard White, executive vice-president of the A. A. N., was the luncheon speaker between sessions and spoke on his experiences with guarantees. A complete report of the education program will appear in a later issue.

Committee Reports

Reports of standing committees dominated the concluding session of the 3-day program on the morning of February 4. Louis Vanderbrook, Vanderbrook Nurseries, Inc., Manchester, Conn., chairman of the president's address committee, reported that the proposition of establishing a fellowship and scholarship fund is an excellent idea, but requires further study by the association's executive committee. The executive committee, after studying the proposal, will report back with a definite decision at the next annual meeting.

Jack Brownell, Rhode Island Nurseries, Newport, R. I., reported for the nominating committee. The slate of officers, printed previously, was unanimously elected. Hendrik Verkade, Jr., Verkade's Nurseries, discussed the 1959 A. A. N. convention and the success of the clam bar sponsored there by the N. E. N. A.

Wayne Smith, Littlefield-Wyman Nurseries, Inc., Abington, Mass., briefly reported on the management training program at the Sagamore conference center. The N. E. N. A. was invited to hold its summer meeting, tentatively set for the third Wednesday in August, at Newport, R. I.

Unfinished business concluded the

CHAPMAN'S NURSERY

553 Church St.

Indiana, Pa.

Per 100 Per 1000

Scotch Pine

Austrian Hill Strain

(3-0), 3-yr., S., 8 to 14 ins....	\$ 6.00	\$ 28.00
(4-0), 4-yr., S., 12 to 20 ins....	8.00	35.00
(2-3), 5-yr., T., 12 to 20 ins....	15.00	90.00

French Strain

(3-0), 3-yr., S., 6 to 12 ins....	4.00	28.00
(2-3), 5-yr., T., 10 to 20 ins....	15.00	90.00

Austrian Pine

(3-0), 3-yr., S., 6 to 12 ins....	6.00	25.00
(4-0), 4-yr., S., 10 to 14 ins....	8.00	35.00

American Red Pine

(3-0), 3-yr., S., 8 to 14 ins....	7.00	30.00
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Mugho Pine

True dwarf Tyrolean Strain

(3-0), 3-yr., S., 3 to 5 ins....	25.00
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Norway Spruce

(3-0), 3-yr., S., 5 to 10 ins....	5.00	25.00
(3-0), 3-yr., S., 10 to 14 ins....	8.00	35.00
(3-2), 5-yr., T., 12 to 22 ins....	15.00	100.00

Colorado Blue Spruce

(3-0), 3-yr., S., 4 to 8 ins....	5.00	25.00
(3-0), 3-yr., S., 8 to 12 ins....	8.00	40.00
(3-2), 5-yr., T., 5 to 10 ins....	12.00	80.00
(3-2-2), 7-yr., T., 12 to 22 ins., 75c each.		

Douglas Fir

(3-0), 3-yr., S., 6 to 12 ins....	7.00	30.00
(3-2), 5-yr., T., 10 to 14 ins....	15.00	100.00

American Arborvitae

(3-0), 3-yr., S., 3 to 6 ins....	3.00	25.00
(3-1), 4-yr., T., 5 to 10 ins....	10.00	75.00

HOLLY LINERS

In 2 1/4-in. Jiffy Pots

Maurice River
Menantico
Eleanor
Lady Alice
Clark
Arden
New Jersey Male

\$30.00 per 100.

Free delivery on orders of 1000 or more.

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West Falmouth, Mass.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

NORTHERN-COLLECTED

Hemlocks, Ferns, Wild Flowers
Trees, Shrubs

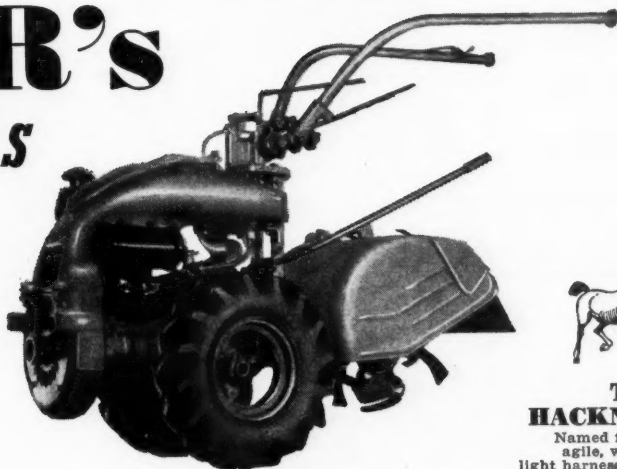
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EXETER, N. H.

THE ORIGINAL SWISS
ROTARY TILLER

SIMAR's

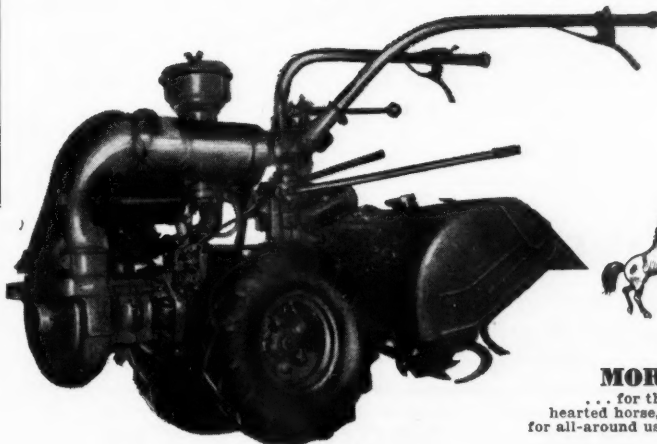
THREE MODELS

5 H.P. — 2 SPEEDS and REVERSE. The smallest-size tiller available for general use, particularly for greenhouse bench work. Very maneuverable. Equipped with clogproof, shockproof digging tools. 15-in.-width cut. Reverse-A-Matic design.



THE HACKNEY
Named for the agile, willing, light harness horse

Reverse-A-Matic Design permits use of 20 various attachments for both the Hackney and Morgan models. Run engine in reverse for such multi-purpose uses as 30-in. rotary mower — 4-ft. snowplow or bulldozer — 42-in. sickle bar, making both models all-season machines.

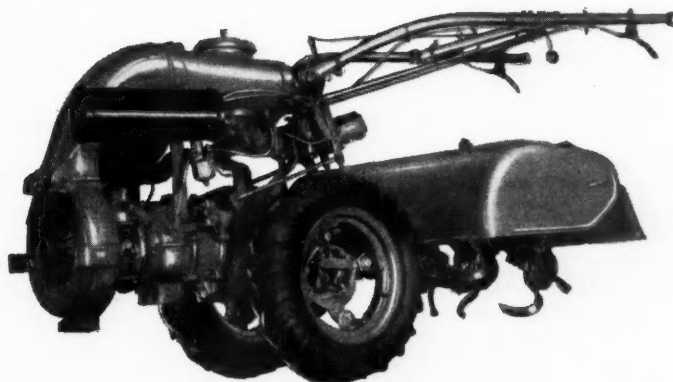


THE MORGAN
... for the stout-hearted horse, famous for all-around usefulness



THE CLYDESDALE
the great draft horse

10 H.P. — 4 SPEEDS and REVERSE. Heavy-duty rugged tiller, 30-in.-width cut. Automotive-type clutch. This machine is equipped with heavy-duty, non-clogging digging tools.



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Geneva, N. Y. — Phone: 8131

PINE — SPRUCE — FIR

	Per 1000
Colorado Blue Spruce, excellent color	
3-yr., 4 to 7 ins.	\$35.00
2-yr., 3 to 5 ins.	25.00
Scotch Pine, special green strain	
3-yr., 8 to 14 ins.	20.00
Douglas Fir, blue	
2-yr., 3 to 6 ins.	30.00

Special prices on large quantities. Write us.

GARUFI'S NURSERIES
902 Warren Ave. Apollo, Pa.

ANDROMEDAS
Field-Grown

	Each	Each
	Per 100	Per 500
4-yr., TT.	\$0.55	\$0.50
Liners in Bed		
2-yr., T. ....	.25	.20
3-yr., T. ....	.40	.35
CORNUS KOUSA		
4-yr., TT. ....	.60	.55
SOWAMS NURSERY		
82 Sowams Rd. Barrington, R. I.		

QUALITY LINERS

	Per 100
Douglas Fir, blue	
5 to 12 ins., T.	\$15.00
Colorado Blue Spruce	
5 to 10 ins., T.	20.00
Canadian Hemlock	
5 to 10 ins., T.	20.00
Pink-Flowering Dogwood	
10 to 15 ins., grafts	75.00
15 to 24 ins., grafts	85.00
Send for New Spring List	
POSSUM HOLLOW NURSERIES	
6909 Henley St. Philadelphia 19, Pa.	

morning session. In accordance with Mr. Kelsey's report as chairman of the trade practices and ethics committee, a special committee will be appointed by President Vittner to prepare a uniform guarantee and present it to the executive committee for study.

A copy of the guarantee will also be circulated to all members of the association for their comments and criticisms. After further study, the executive committee will present the guarantee, in its final form, for membership approval at the next annual meeting.

Because the next annual meeting will mark the association's 50th anniversary, the membership, after a brief discussion, authorized the executive committee to spend not more than \$1,000 in the next 12 months to publicize the association and its golden anniversary. The executive committee will work with the publicity committee in allocating funds for this purpose and in formulating and executing plans.

The new officers of the association were formally introduced to the membership at the luncheon which followed the business meeting.

MUM GROUP ELECTS

Kenneth P. Bird, Bristol Nurseries, Inc., Bristol, Conn., was elected president of All-America Mum Selections at its annual meeting at Chicago. Mr. Bird served as vice-president for the past two years and succeeds Sidney B. Hutton, Jr., of the Conard-Pyle Co., West Grove, Pa. Verl J. Davis, R. M. Kellogg Co., Three Rivers, Mich., is the new vice-president.

A. A. M. S., established in 1954, is a nonprofit educational institution for the testing and evaluating of new garden chrysanthemums before introduction.

There are 20 official trial grounds in America and southern Canada, each under a qualified resident judge who scores and rates the entries. From the averaged scores and comments, a jury of 13 directors finally selects the award winners by secret ballot.

The 1960 winners are Headliner, a large walnut-coral decorative; Mardi Gras, giant cactus-decorative bicolored red and gold, and Pink Cherub, compact pompon cushion mum of rose pink, as pictured and reported in the January 15 issue of the American Nurseryman.

SCHEDULED for opening about March 15 is the Pineland Garden Center, Cayce, S. C.

Spraying Can Protect Your Plants and Profits

But Its Effectiveness Depends Upon the Equipment You Use

Spray protection insures healthy plants and bigger profits. But . . . it's only as effective as the equipment you use. Thorough coverage is essential. If not properly applied, the best insecticides, fungicides or fertilizers will give only poor control. Here are several types of sprayers in wide use by nurserymen with varying requirements. Which type would fit your needs best?

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John Bean's self-propelled Hi-Crop Sprayer puts you above your plants, assures thorough coverage and complete protection. It's easy to maneuver even under the toughest field conditions with its powerful engine and automotive steer-



ing. Full, six-foot clearance under the wheel arches and adjustable wheel tread let you fit the sprayer to every row width. The boom is adjustable for any height. For added versatility, the Hi-Crop is an ideal high-pressure unit for use with hose and gun to handle any spraying job.

CHOICE OF 4 PUMPS

Four pumps are available with the Hi-Crop so you can choose the pump capacity at the pressures you need for your specific spraying requirements — the Royalette 10 pump, 10 g.p.m. at up to 400 lbs. pressure; the Royalier 15, with capacity of 15 g.p.m. at up to 300 p.s.i.; the Royalier 20, capacity of 20 g.p.m. at up to 400 p.s.i. and the Hypro pump, 12 g.p.m. at 150 p.s.i.

John Bean Royalette and Royalier pumps feature lifetime Sapphite cylinders—so hard that even the most abrasive spray materials can cause no wear.

AIRCROP ATTACHMENTS

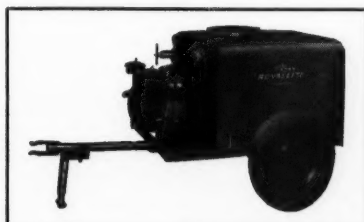
You'll cover big acreages faster and more thoroughly with a John Bean Aircrop attachment. With this versatile mist sprayer, you can protect nursery plants, shrubs and trees with concentrations many times those used in high-pressure



equipment and you do it in less time, using less spray material. Two models of Aircrop attachments are available—the 10-RC and the 15-RC. Either one converts most any high-pressure unit into a modern, air-type sprayer.

ALL-PURPOSE ROYALETTE

Get all-around versatility for every nursery spraying job with John Bean's famous Royalette. It's an all-purpose sprayer that gives you efficient, dependable performance at modest initial cost. The Royalette 10 Series offers a capacity of 10 g.p.m. at up to 400 lbs. pres-



sure; the 55 Series has a 5 g.p.m. capacity at up to 400 lbs.

Where higher capacities are required, John Bean offers the Royalier Series with capacities of 15 g.p.m. at up to 400 lbs. pressure and 20 g.p.m. at pressure of up to 300 lbs.

BEAN BONDED TANKS

To protect against corrosive spray materials, John Bean bonds tank interiors with a special process called BEAN BOND—your guarantee against rust and corrosion. Royalette and Royalier sprayers are available in a wide variety of mountings including skid, trailer and power take-off models.

COMPACT TROJAN SPRAYER

The compact John Bean Trojan sprayer fills the bill for varied spot-spraying jobs. Perfectly balanced, it's a highly portable unit that can be moved into hard-to-reach places. Trojan's new fiberglass pump re-

sists corrosion and abrasion. It has no bearings, belts or gears—only one moving part. Pump delivers a constant, nonpulsating pressure with a capacity of 3 g.p.m. at up to 60 p.s.i. Powerful, 2¼-h.p., four-cycle engine is equipped with automatic recoil starter for fast, easy starts. Pistol grip spray gun adjusts from wide, cone-shaped mist to straight stream. Trojan comes



equipped with 15 feet of high-pressure, heavy-duty, chemical-resistant hose. Bean Bond coating guards the 10-gal. tank against rust and corrosion. Jet agitator churns water and spray material for thorough mixing. Three useful attachments include a root feeder, 3-nozzle spray boom and a 7½-foot tree extension.

USE QUALITY EQUIPMENT

Don't take chances with your profits by using inadequate or inferior equipment. When you buy, select a sprayer that's best suited to your specific needs, that offers you the capacity to cover your acreage "on time" when protection is needed, that has extra capacity for your expansion plans and that's built to last longer. John Bean's complete line includes a size and model for every spraying job . . . for any size acreage. And over 75 years of John Bean manufacturing experience assures you of the finest high-quality sprayers you can buy.

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State University Hosts New Hampshire Growers

By Lawrence A. Dougherty

The annual meeting held by the New Hampshire Plant Growers Association February 6 at the University of New Hampshire, Durham, was one of the best in years, in spite of adverse weather conditions. Heavy rains during the day and a blanket of fog in the evening did not dampen the spirits of the more than 100 plantsmen who attended.

At the election of officers, the following were chosen for 1960: President, Glen Emerson, Hampstead; first vice-president, Ernest Gould, Manchester; second vice-president, Tom Massingham, Dover; third vice-president, J. Raymond Hepler, Billy Hepler Seed Co., Durham; treasurer, Paul Kimball, Exeter, and secretary, Lawrence A. Dougherty, University of New Hampshire.

As in the past, a get-acquainted and registration period preceded the opening meeting. While some plant growers enjoyed coffee and doughnuts, others visited the greenhouses and talked to tradesmen who exhibited florists' and nursery supplies.

President John Leahy, Jr., Meader's, Dover, N. H., opened the meeting and called on Dr. Harold Grinnell, dean of the agricultural college of the University of New Hampshire, for comments. Dean Grinnell stated that a special committee had been set up by directors of the northeastern agricultural experiment station to list and study the most important problems facing the florists' and nursery trades. This list will serve as a guide in planning necessary work in both research and extension in the northeast. He also indicated that the decline in the number of agricultural students has resulted in problems relating to university personnel, many of those on the agricultural staff doing both teaching and research work.

Breeding Program

Dr. W. W. Smith, U. N. H., introduced members of the horticultural staff at the university, including Dr. Owen Rogers, a new member of the department, formerly of Pennsylvania State University, who will give time to plant breeding in the ornamental field.

J. Lincoln Pearson, graduate assistant in horticulture at U. N. H., showed many of the New Hampshire introductions in color and briefly

discussed them. Mr. Pearson has given special attention to propagation of lilacs and has been instrumental in distributing many of the station's new lilacs to nurserymen in the state.

Publicity for Selling Products

Lawrence Dougherty, secretary of the New Hampshire Plant Growers Association, next discussed the opportunities and problems in publicizing and selling New Hampshire horticultural introductions. He said that at least five of the latest introductions were pictured and described in 1960 issues of leading national horticultural magazines. Mr. Dougherty stated that out-of-state concerns have done more to advertise New Hampshire introductions than have in-state concerns. This is in part due to the rather small number of New Hampshire firms selling on a national basis and possibly to local lack of

appreciation of the opportunities existing.

Plans are under way, however, to give wider publicity to new introductions, Mr. Dougherty said. The association has a color brochure available, which lists 21 of the introductions and will be widely distributed. An insert added to the brochure lists sources for all the introductions. He also recommended that plantsmen show and offer some of the introductions in every town in the state. The James Macfarlane lilac; the Durham pillar, Grafton pillar and White Mountains rambler roses; the Granite Pink and Granite Purple monardas, and the Granite series of chrysanthemums are among the items being publicized, according to Mr. Dougherty.

The business meeting completed the morning session. The treasurer's report indicated that the association is in good financial condition. A large part of the expenditures is used for the annual meeting, the summer tour and the Plantsman publication, which is issued monthly.

Willard Bond, general manager, Wyman's Garden Centers, Inc., Framingham, Mass., opened the afternoon session with a talk on "Maintaining Sales Volume Through the



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<i>Forsythia Lynwood Gold</i> 2-yr., 18 to 24 ins.	<i>Taxus media browni</i> , 2-yr., T.
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<i>Myrica pensylvanica</i> , 2-yr., T.	<i>Taxus media nigra</i> , 2-yr., T.
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Season." The Wymans operate two garden centers and grow nursery stock on 375 acres. He discussed some of the important practices used at Wyman's Garden Centers to maintain sales volume, putting special emphasis on the following:

1. Feature plantings are made every month to maintain customer interest.

2. Substantial purchases of stock are encouraged during the early months of the year, especially because customers can be given more individual attention at that time. On orders exceeding \$100, a discount of 15 per cent is given in January, 10 per cent in February and 5 per cent in March; no discounts are given during the remaining months of the year.

3. The grounds and buildings are kept neat, clean, inviting and beautiful, something, Mr. Bond indicated, too many nurseries fail to do. Illustrating several points relating to cleanliness and appearance, he said walks are kept raked and clean. When plants are put in the trunk of a car, a paper cut to size is first placed on the floor of the trunk. Employees must dress neatly.

4. The displays are rotated and colorful items and seasonable merchandise are kept up in front.

5. Tie-in sales do much to maintain sales volume. A greenhouse department is also featured.

6. Container-grown stock makes possible the sale of many items through the entire year. However, he said, his firm did not display container material until it is needed. Some hard-to-transplant items, like Newport plum, are handled in containers the year around. On many items, container stock is displayed only after warm weather has arrived.

7. Christmas items maintain year-end volume, making December the second biggest month in the year. At Wyman's Garden Centers the inside and outside are beautifully decorated during the Christmas season. Items are sold that cannot be bought at the local hardware or department store. He stressed the importance of making it easy for customers to see the Christmas trees displayed. At Wyman's each tree is set up in such a way that it can easily be turned by the customer.

In conclusion, Mr. Bond said that nurserymen should be proud of their business; they play an important part in making homes and grounds interesting and beautiful, and they have unlimited opportunities.

After Mr. Bond's talk, two panel groups were formed. Howard Put-

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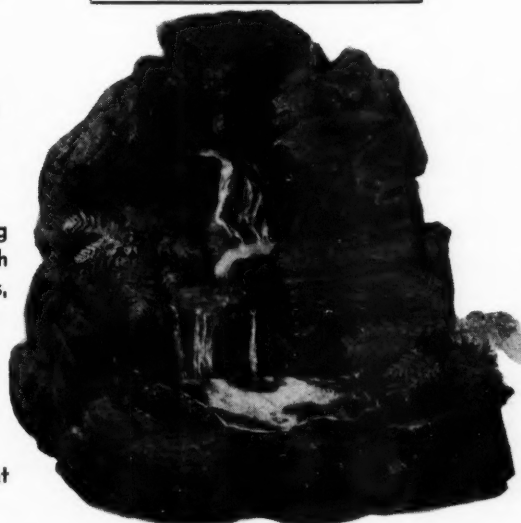
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1 1/4-in. cal.	\$ 4.50	\$ 3.25	\$ 3.00
1 1/2-in. cal.	7.00	5.50	5.00
1 3/4-in. cal.	9.50	8.00	7.00
2-in. cal.	12.50	10.00	9.00

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nam, Claremont, was moderator of the panel discussing low-cost greenhouses. He described his new 20x96-foot aluminum and plastic house, in which ventilators and steam heat are used. Cost, less heat, was approximately 89 cents per square foot.

Newly elected President Emerson said that he has built two houses, the first a Cornell-type house, with 17x60-foot wood framing and polyethylene, for which the cost, less heat, was \$1.15 per square foot. The second house was built with a curved pipe frame that can be covered by a 40x100-foot sheet of plastic. Ventilating fans with thermostats are used. Maintenance and recovering of the second house should be much less than for the first, he said.

Perley Lee, Dover, reported on his 18x38-foot fiberglass house. He felt it was well suited to the location, in between two other houses.

Freeman MacEachran, Knollcrest, Concord, has just built a 34x144-foot greenhouse, using laminated wood frames covered with a vinyl plastic. Cost, including ventilating fans, but less heat, was about 78 cents per square foot.

Roger Williams, Center Tuftonboro, described his plastic house, which has a curved pipe frame covered with 6-inch welded wire mesh. His experience indicated the desirability of tying the plastic down with something to prevent loss from any ripping of the plastic by wind.

All members of the panel believed that plastic houses have a definite place in the nursery business and that they reduce overhead. Longer-lasting plastics are hoped for. Ventilating fans appear to be an important asset, and thermostats are desirable.

Container Plant Panel

Moderator of the second panel, which discussed growing and selling stock in containers, was J. Lincoln Pearson, Pearson Nursery, Quincy. Panel members were Sumner Johnson, who handles container growing for Corliss Bros., Inc., at Ipswich, Mass., and Dr. Harrison Flint, horticultural department, University of Rhode Island.

Mr. Johnson said that plants could be grown economically in containers, with less help and space and with fewer pieces of equipment. At Corliss Bros., a well-aerated medium, 50-50 peat and sand, is used, Mr. Johnson explained. Winter storage has been a problem, and various methods of solving the problem, using sheds, mulches or polyethylene shelters, for instance, are being experimented with. He said ease of handling and



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increased sales justify container growing.

Dr. Flint indicated that at the University of Rhode Island tests are being carried on to determine the fertilizer needs for each type of plant. Mr. Johnson added that Corliss Bros., Inc., applies fertilizer in the irrigation water, a practice that greatly reduces labor. Careful soil checks are made to learn soil needs.

Over 60 persons attended the banquet in the evening. Dr. Albion Hodgdon, head, botany department, University of New Hampshire, gave an illustrated talk on "Plant Explorations in Northern Alaska." Serious handicaps to plant growth exist in that area due to the short growing season and the shallow depth of soil which is free from frost for only a short period. Dr. Hodgdon pointed out. The ground is frozen to great depths and thaws out to a depth of about 12 to 18 inches, except along streams. Some low shrubs, such as willows and alders, grow in ravines on slopes and many willows grow along the streams. Much of the level land is a hummocked tundra, covered with shrubby growth. In this area probably about 300 plant species exist. Several groups of plants most commonly found there are the sedges, sphagnum and ericaceous species.

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Trenton Events Conclude New Jersey Winter Meet

By Roy H. DeBoer

The Hotel Hildebrecht, Trenton, N. J., was headquarters for sessions of the third and final day of the New Jersey Association of Nurserymen's winter meeting, January 28, held in conjunction with New Jersey farmers' week. Events of the first two days of the meeting, held January 21 and 22 at Asbury Park, are reported elsewhere in this issue.

Reconvening at the Hotel Hildebrecht, the members first heard a report from the New Jersey division of plant industry. Presenting the first section of the joint report, William W. Metterhouse related that there are now 1,036 registered nurseries and 356 dealers in New Jersey. The increase in nurseries in 1959 was 121. The total acreage in nursery stock is now 7,816 acres. A brief report of the incidence of insects on nursery crops was presented.

Gordon Butler gave a progress report on the nursery survey conducted in 1959. The information is being compiled and should be published in about three months. Nursery sales for 1958 totaled over \$8,000,000, from the 6,300 acres of land that were producing.

Nematode problems now affecting nurseries were surveyed by E. E. McCoy. He informed the members of a currently available publication, "Nematodes in the New Jersey Nursery Industry," which was published during the past year. The work of the department is now centered on the root-knot nematode and the cyst nematode. Mr. McCoy then answered some questions about the nematode problem.

William M. Boyd reported on the progress of the gypsy moth eradication program. All inspections from the New Jersey quarantine area were negative, but several egg masses were found in other areas. The threat of the white-fringed beetle seems to have been eliminated, with no adults or larvae found in two years. No cases of soybean cyst nematode have been found in New Jersey nurseries.

Frank Soraci presented the report from his department. He noted that the gypsy moth problem is complicated by the lack of control just outside the state borders, and by the recent emphasis on spray residues.

Mr. Soraci informed the nursery-

men of another potential threat, that of the European chafer. This pest has been present in western New York for many years and recently has appeared in several other locations. It is now present just outside the eastern New Jersey border and will probably be in the state shortly. The division is on the lookout for any possible outbreak, but to date has found none.

The habits of the insect were described, and possible controls outlined. The pest does its damage in the grub stage much the same as the Japanese beetle and could be controlled by some of the grub-proofing methods used against the latter. Mr. Soraci concluded by suggesting that the N. J. A. N. give consideration to the formation of a quarantine committee to act in an advisory capacity for the division of plant industry.

The second topic of the morning was "Nutrient Deficiency Symptoms

and the Use of Indicator Plants," presented by Richard Zimmerman, holder of the nurserymen's fellowship, who is currently working on his doctor's degree in the department of horticulture of Rutgers University, New Brunswick. Mr. Zimmerman began with a brief outline of the history of the knowledge of plant nutrition, and of the essential elements as they are known today.

Many of the woody ornamental plants survive for long periods of time at extremely low nutrient levels before deficiency symptoms appear. This makes study and determination of low levels much more difficult and complicated than it would be with most annual herbaceous crops. An excellent group of colored slides showing deficiency symptoms for the major elements on taxus, forsythia, weigela, pin oak and convex-leaved Japanese holly were shown.

Mr. Zimmerman suggested that certain indicator plants (sensitive annual species) could be planted in nursery blocks to signal deficiency conditions, thereby enabling the nurseryman to correct the situation before it actually shows up on the woody plants and before too much growth has been lost.

After a fine luncheon, President Peter Vermeulen introduced the aft-

RHODODENDRONS

Own root, 8 to 12 ins.—heavily rooted—from open frames

April 1 Delivery—B&B

REDS—\$1.25 each

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Prof. Bettex

**PINK, LILAC and BLUE
\$1.15 each**

Blue Peter, blue

Everestianum, rose-lilac

Parson's Gloriosum,
rose-pink

Roseum Elegans, pink

Send for list of hardy rooted cuttings ready late spring. We also offer a large variety of exotic semihardy rhododendrons (for zones below Philadelphia, Pa.). Asiatic species for the rhododendron fancier.

Minimum order B&B stock 25 of one variety. All prices F.O.B. our nursery.

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OPEN FIELD BED TRANSPLANTED LINERS

These bedded liners cannot be surpassed. They are under shade only the first year and face all the weather elements in open field beds.

ARBORVITAE	Per 100	Per 1000
American		
2-yr., 6 to 10 ins.	\$16.00	\$150.00
3-yr., 10 to 15 ins.	19.00	175.00
Elegantissima		
2-yr., 6 to 8 ins.	24.00	200.00
3-yr., 8 to 12 ins.	30.00	250.00
Ellwangeriana Tom Thumb		
2-yr., 6 to 8 ins.	24.00	200.00
3-yr., 10 to 15 ins.	30.00	250.00
RETINOSPORA—CHAMAECYPARIS		
Filifera aurea (Gold Thread)		
2-yr., 4 to 8 ins.	22.50	200.00
3-yr., 6 to 8 ins.	27.50	250.00
Filifera (Green Thread)		
4-yr., 8 to 12 ins.	20.00	175.00
Obtusa crispata		
2-yr., 6 to 8 ins.	25.00	225.00
3-yr., 6 to 8 ins.	30.00	275.00
TAXUS		
Cuspidata—Special		
1-yr., 4 to 6 ins.	16.00	150.00
2-yr., 6 to 10 ins.	20.00	175.00
3-yr., 8 to 12 ins.	25.00	225.00
4-yr., 8 to 12 ins.	27.50	250.00
Media Hicksii		
1-yr., 4 to 6 ins.	20.00	180.00
2-yr., 6 to 8 ins.	25.00	225.00
3-yr., 8 to 10 ins.	30.00	275.00
4-yr., 8 to 10 ins.	35.00	325.00
Baccata repandens (Creeping Yew)		
3-yr., 4 to 6 ins.	27.50	250.00
4-yr., 8 to 12 ins.	40.00	350.00

RATE—Under 200 at 100 rate; 200 or over at 1000 rate.

TERMS—Orders can be booked with ¼ cash, balance before shipping date or C.O.D. Cash with order earns 2% discount; boxing and packing free.

SPECIAL DISCOUNTS ON LARGE QUANTITIES.

Government-inspected stock; no Japanese beetles.

Write for complete list.

KING WHOLESALE NURSERY
Growers of Quality Evergreen Liners and Finished Stock

R. D. No 5

Phone: Temple 4-8930

Greensburg, Pa.

4 miles south on Rt. 180.

ernoon speaker, S. Kenneth Paul, vice-president, First Trenton National bank, Trenton, N. J., who spoke on "Consumer Credit Financing for Nurserymen and Landscape Gardeners."

Mr. Paul began by noting that nurserymen must keep abreast of the changing times by directing their sales efforts toward the mass market of average, middle-income homeowners rather than toward the relatively few wealthy consumers. And practically all that the middle-bracket homeowner now possesses is bought on credit.

It is much easier to sell a product on the basis of \$20 per week than it is to sell it for \$500 cash in one or two close payments. Landscaping and financing must be sold as a single package if nurserymen are to compete favorably for the consumers' dollar.

A customer who is sold on a landscape job frequently must postpone making a definite commitment until he can work out financial problems. In the meantime a competitor may have the chance to talk to him, or the client himself may have too long a period to think over the deal and perhaps doubt the wisdom of it.

The safest way is to sew up the sale in one operation. The entire

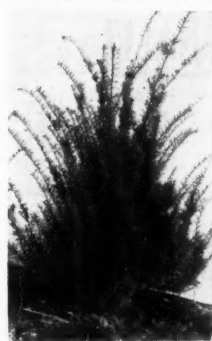


Photo shows 8-year-old Taxus Spaeth

SUPERIOR TAXUS SPAETH

(Taxus cuspidata Spaeth)

A definitely superior form of upright Yew. Dark green winter and summer. Dense foliage right to the ground. The ideal Upright Taxus.

WE HAVE 2 AND 3-YEAR-OLD PLANTS OF THIS EXCEPTIONAL SPECIES. SEND FOR PRICES.

THE VAN HEININGEN NURSERIES
Deep River, Conn.

SPECIAL OUR SURPLUS IS YOUR GAIN!
I Want to Sell to You!

Scotch Pine (Pinus sylvestris)

	Net	Net	Net
	Per 1000	Per 10,000	Per 100,000
2-yr., S., 2 to 4 ins.	\$10.00	\$ 7.50	\$ 5.00
2-yr., S., 4 to 8 ins.	20.00	18.00	14.00
3-yr., S., 8 to 14 ins.	20.00	18.00	14.00
3-yr., S., 10 to 18 ins.	28.00	24.00	19.00

Cash or 25% deposit, balance C.O.D.

SAM DIBLE NURSERY

Shelocta, Pa.



When you look for Euonymus—
LOOK for the EMERALD!
CORLISS BROS., INC. Ipswich, Mass.

SHADE TREES—ORNAMENTALS

Gleditsia triacanthos, Carpinus caroliniana, Cercis canadensis, Cornus florida, Phellodendron amurense, Platanus acerifolia, Liquidambar styraciflua, Acer platanoides, Acer rubrum, Fraxinus americana, Acer ginnala, Ostrya virginiana, Koeleria paniculata, Pyrus calleryana, Pinus strobus, Pinus nigra, Salix babylonica, Pieris japonica and many more.

HIDDEN VALLEY NURSERY
Phone: Millington 7-1158 Gillette, N. J.

PINE — SPRUCE — FIR

Seedlings and Transplants

NORWAY SPRUCE (<i>Picea excelsa</i>)		Per 100	Per 1000
2-yr., S., 2 to 3 ins.		\$ 6.00	\$ 22.00
2-yr., S., 3 to 4 ins.		7.00	30.00
3-yr., S., 4 to 8 ins.		8.00	40.00
4-yr., S., 8 to 10 ins.		10.00	55.00
4-yr., S., 10 to 15 ins.		15.00	75.00
3-yr., T., 4 to 8 ins.		12.00	100.00
4-yr., T., 5 to 10 ins.		15.00	120.00
4-yr., T., 10 to 12 ins.		20.00	180.00
5-yr., T., 12 to 15 ins.		25.00	200.00
SCOTCH FINE (<i>Pinus sylvestris</i>)			
2-yr., S., 3 to 6 ins.		7.00	15.00
2-yr., S., 4 to 8 ins.		8.00	25.00
3-yr., S., 5 to 10 ins.		10.00	28.00
3-yr., S., 8 to 15 ins.		12.00	35.00
4-yr., T., 10 to 15 ins.		15.00	60.00
AUSTRIAN PINE (<i>Pinus nigra</i>)			
2-yr., S., 3 to 6 ins.		10.00	35.00
3-yr., S., 6 to 8 ins.		12.00	45.00
3-yr., S., 8 to 12 ins.		15.00	55.00
WHITE SPRUCE (<i>Picea alba</i>), excellent blue-gray color			
2-yr., S., 3 to 6 ins.		8.00	20.00
2-yr., S., 4 to 8 ins.		10.00	28.00
3-yr., S., 8 to 10 ins.		12.00	35.00
3-yr., S., 10 to 15 ins.		15.00	45.00
4-yr., T., 4 to 6 ins.		20.00	180.00
5-yr., T., 6 to 10 ins.		25.00	200.00
5-yr., T., 10 to 15 ins.		30.00	250.00
CONCOLOR FIR (<i>Abies concolor</i>)			
2-yr., S., 2 to 3 ins.		12.00	35.00
2-yr., S., 3 to 4 ins.		15.00	45.00
3-yr., S., 4 to 6 ins.		18.00	55.00
DOUGLAS FIR			
2-yr., S., 2 to 3 ins.		10.00	25.00
2-yr., S., 3 to 5 ins.		12.00	30.00
4-yr., S., 4 to 8 ins.		15.00	40.00
BLUE SPRUCE			
2-yr., S., 2 to 3 ins.		7.00	30.00
2-yr., S., 3 to 4 ins.		8.00	35.00
3-yr., S., 4 to 8 ins.		10.00	40.00
3-yr., S., 8 to 10 ins.		15.00	50.00

Discount: Less 5% on quantities of 5000 or more of a kind.

Order 100 at 100 rate; 1000 at 1000 rate.

Special prices on large quantities. Write us.

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Phone: Zellenople 789—We are not open Sundays.
30 miles north of Pittsburgh on Highway 19.

PACHYSANDRA TERMINALIS

	100	1000
1-yr., field-grown, vigorous plants.....	\$ 5.00	\$ 45.00
Lots of 3000 or more.....		42.50
2-yr., field-grown, extra heavy.....	8.00	75.00
2¼-in. pot-grown, 2 plants per pot.....	11.50	105.00

OTHER GROUND COVER PLANTS

<i>Euonymus fortunei coloratus</i> , 2-yr., field-grown	18.00	160.00
<i>Euonymus fortunei radicans</i> , 1-yr., field-grown	15.00	.....
<i>Hedera helix</i> , 2¼-in. pot-grown	12.50	115.00
<i>Hedera helix baltica</i> , 2¼-in. pot-grown	13.00	120.00
<i>Lonicera japonica halliana</i> , 2¼-in. pot-grown	11.00	100.00
<i>Vinca minor</i> , 2¼-in. pot-grown	13.50	125.00
<i>Vinca minor</i> Bowles variety, 2¼-in. pot-grown	16.00	150.00

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JAPANESE RED BARBERRY

	Per 100	Per 1000	Per 5000
2-yr., S., 6 to 9 ins.....	\$ 6.00	\$ 50.00	\$200.00
2-yr., S., 9 to 12 ins.....	8.00	70.00	300.00
2-yr., S., 12 to 18 ins.....	10.00	90.00	400.00
2-yr., S., 18 to 24 ins.....	15.00	125.00	575.00
4-yr., T., heavy, 15 to 18 ins.....	30.00	275.00	.....
4-yr., T., heavy, 18 to 24 ins.....	35.00	325.00	.....
4-yr., T., heavy, 2 to 2½ ft.....	37.50	350.00	.....

FAIRVIEW EVERGREEN NURSERIES

Fairview, Erie Co., Pa.

automobile industry is based on financing. Last year 67 per cent of the autos sold were financed. Consumer credit is here to stay, and it will grow steadily, asserted Mr. Paul.

Obtaining Finances

How does a nurseryman set up a financing arrangement? First he should confer with his banker. Many banks will offer him an indirect lending service, whereby he handles the complete transaction for his customers, acting, in effect, as a representative of the bank as well as a nurseryman.

The bank will want to know a few things about him—his financial status, his moral responsibility, his ability and talent, the character of his advertising (not misleading) and whether or not he has some policy on guarantees and adjustments.

Mr. Paul emphasized that banks do not dictate policy on such matters, but rather just want to be sure that a retailer has a policy that they can expect him to follow. The nurseryman, in turn, should satisfy himself that the bank is well established, convenient and progressive and that it has a reputation for expert knowledge in financial affairs.

Mr. Paul then answered a few questions from the audience, after which the meeting was adjourned.

PHILADELPHUS

[Continued from page 15]

P. purpurascens, 12, Z 5, China, purple-cup mock orange — Single flowers, 1½-inch diameter, very fragrant, with a purple calyx.

P. schrenki jacki, 8, Z 5, Korea, Jack mock orange—Flowers single, 1-inch diameter, but are the first of all the mock oranges to bloom.

P. splendens, 8, Z 5, hybrid origin before 1900—Single flowers, 1½-inch diameter and fragrant, with brilliant yellow stamens, well branched on all sides and thus making a good foliage specimen.

Albatre (virginalis), 5, Z 5, introduced by Lemoine 1914 — Double flowers, 1¼-inch diameter, slightly fragrant, with good habit.

Argentine (virginalis), 4, Z 5, Lemoine 1914—An excellent double-flowered type (32 petals), flowers 2-inch diameter, very fragrant.

Avalanche (lemoinei), 4, Z 5, Lemoine 1896—Single flowers, 1-inch diameter, one of the most fragrant.

Banniere (cymosus), 7, Z 5, Lemoine 1907 — Semidouble flowers, 1½ to 2¼-inch diameter, fragrant. The bush is rather straggly, but this is the first of these hybrids to bloom.

Belle Etoile (lemoinei), 6, Z 5-6,

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FIELD-GROWN LINING-OUT STOCK

Transplanted stock grown in open field beds.

	Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate		Each 100 rate	Each 1000 rate
Abies Concolor (Concolor Fir)			Juniperus pfitzeriana, regular			Pinus Mugho (Dwarf Mugho Pine)		
4 to 6 ins., 4-yr., T.	\$0.30	...	8 to 10 ins., 2-yr., T.	\$0.45	\$0.40	2 to 3 ins., 3-yr., S.	\$0.10	\$0.09
5 to 10 ins., 5-yr., T. ....	.45	...	10 to 15 ins., 3-yr., T. ....	.55	.50	3 to 5 ins., 3-yr., T. ....	.20	.18
Buxus sempervirens welleri			Juniperus pfitzeriana compacta			5 to 8 ins., 4-yr., T. ....	.25	.20
(Weller's Hardy Boxwood)			8 to 10 ins., 2-yr., T. ....	.45	...	8 to 10 ins., 5-yr., T. ....	.35	.32
6 to 8 ins., 2-yr., T. ....	.35	\$0.32	10 to 12 ins., 3-yr., T. ....	.55	...	Pinus nigra (Austrian Pine)		
8 to 10 ins., 3-yr., T. ....	.45	...	12 to 15 ins., 4-yr., T. ....	.60	.55	6 to 8 ins., 3-yr., S. ....	.12	...
Chamaecyparis lawsoniana allami			Juniperus pfitzeriana aurea			8 to 12 ins., 3-yr., S. ....	.15	...
8 to 10 ins., 2-yr., T. ....	.30	.28	8 to 10 ins., 2-yr., T. ....	.40	...	Pyracantha coccinea lalandi		
10 to 12 ins., 3-yr., T. ....	.45	...	10 to 12 ins., 2-yr., T. ....	.50	.45	(Firethorn)		
12 to 15 ins., 3-yr., T. ....	.50	...	12 to 15 ins., 3-yr., T. ....	.60	.55	6 to 8 ins., 2-yr., T. ....	.32	.30
Euonymus fortunei coloratus			Koeleruteria paniculata			10 to 12 ins., 3-yr., T. ....	.40	.38
8 to 12 ins., 3-yr., T. ....	.25	.22	(Golden-Rain Tree)			12 to 18 ins., 3-yr., T. ....	.50	.45
12 to 18 ins., 3-yr., T. ....	.35	.32	12 to 15 ins., 4-yr., T. field. ....	.25	...	Rhododendron Hybrid, various colors		
Euonymus fortunei erectus			18 to 24 ins., 5-yr., T. field. ....	.30	...	8 to 10 ins., 4-yr., T. ....	.85	...
12 to 18 ins., 3-yr., T. ....	.50	...	2 to 3 1/2 ft., 5-yr., T. field. ....	.35	...	Rhododendron catawbiense,		
Euonymus radicans vegetus			Leucothoe catesbaei			rosy-purple		
8 to 10 ins., 2-yr., T. ....	.35	...	(Drooping Leucothoe)			6 to 8 ins., 3-yr., T. ....	.50	.45
10 to 15 ins., 3-yr., T. ....	.45	...	8 to 10 ins., 3-yr., T. ....	.35	.30	8 to 12 ins., 3-yr., T. ....	.65	.60
Ilex crenata (Japanese Holly)			10 to 12 ins., 3-yr., T. ....	.45	.42	Taxus capitata (Upright		
8 to 10 ins., 2-yr., T. ....	.35	...	12 to 15 ins., 3-yr., T. ....	.55	...	Japanese Yew), seed-grown		
10 to 15 ins., 3-yr., T. ....	.45	...	Liquidambar styraciflua (Sweet Gum)			6 to 8 ins., 3-yr., T. ....	.38	.32
12 to 18 ins., 3-yr., T. ....	.65	.60	12 to 15 ins., 2-yr., field. ....	.08	...	8 to 10 ins., 4-yr., T. ....	.55	.45
Ilex crenata convexa (bullata)			18 to 24 ins., 3-yr., field. ....	.10	.08	10 to 12 ins., 6-yr., T. ....	.75	.65
8 to 10 ins., 2-yr., T. ....	.38	.35	2 to 3 ft., 3-yr., field. ....	.12	.10	12 to 15 ins., 6-yr., T. ....	.90	.80
10 to 12 ins., 2-yr., T. ....	.48	.45	Picea excelsa (Norway Spruce)			Taxus cuspidata (Spreading Yew)		
12 to 15 ins., 3-yr., T. ....	.65	.55	5 to 10 ins., 4-yr., T. ....	.15	.12	8 to 10 ins., 2-yr., T. ....	.45	.40
12 to 18 ins., 5-yr., field row			10 to 12 ins., 4-yr., T. ....	.50	.18	10 to 12 ins., 3-yr., T. ....	.50	.45
spaced.	1.00	.90	12 to 15 ins., 5-yr., T. ....	.25	.20	10 to 15 ins., 4-yr., T. field. ....	.65	.55
Ilex crenata helix			Picea pungens			Taxus media hickelii (Hicks' Yew)		
(Round-leaved Japanese Holly)			(Colorado Blue Spruce)			8 to 10 ins., 2-yr., T. ....	.45	...
10 to 12 ins., 3-yr., T. ....	.40	.38	6 to 8 ins., 4-yr., T. ....	.30	.25	10 to 15 ins., 3-yr., T. ....	.55	...
10 to 12 ins., 3-yr., T. ....	.45	.42	8 to 10 ins., 5-yr., T. ....	.45	.40	Thuja occidentalis globosa		
12 to 15 ins., 4-yr., T. ....	.60	.55	10 to 15 ins., 5-yr., T. ....	.55	.50	(Woodward Globe Arborvitae)		
15 to 18 ins., 5-yr., T.	1.00	.90	Picea alba (White Spruce)			8 to 10 ins., 2-yr., T. ....	.35	.32
Ilex rotundifolia			6 to 10 ins., 5-yr., T. ....	.25	.20	10 to 12 ins., 3-yr., T. ....	.40	.38
(Round-leaved Japanese Holly)			10 to 15 ins., 5-yr., T. ....	.30	.25	12 to 15 ins., 3-yr., T. ....	.50	.45
10 to 12 ins., 3-yr., T. ....	.40	.35	Pseudotsuga douglasii			Thuja occidentalis pyramidalis		
12 to 15 ins., 4-yr., T. ....	.50	.45	(Douglas Fir)			(Pyramidal Arborvitae)		
12 to 15 ins., 5-yr., T. heavy. ....	.65	.60	8 to 10 ins., 5-yr., T. ....	.35	.30	12 to 15 ins., 3-yr., T. ....	.55	...
15 to 18 ins., 6-yr., T. field.	1.00	.98	Lining-out Stock. 25 at the 100 Rate. 300 at the 1000 Rate.			15 to 18 ins., 4-yr., T. ....	.65	.55
Juniperus glauca hetzi (Hetz Juniper)								
10 to 12 ins., 2-yr., T. ....	.35	.32						
12 to 15 ins., 3-yr., T. ....	.45	.42						
12 to 18 ins., 4-yr., cutback. ....	.55	.50						

TERMS: Free packing for cash with order, otherwise 1/4 deposit with order and balance C.O.D. Packing at cost. All shipments by railway express.

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Phone: Zeilenople 789 (or 644 evenings)

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(31 mi. north of Pittsburgh, Pa., on Rt. 19)

R. D. 1, HARMONY, PA.

Lemoine, 1925—Single flowers, 2 1/4-inch diameter, fragrant, arching habit.

Boule d'Argent (*lemoinei*), 5, Z 5, Lemoine 1894—Double flowers, 2-inch diameter, excellent.

Bouquet Blanc (*virginalis*), 6, Z 5, Lemoine 1903—Single to slightly semidouble flowers, 1-inch diameter, well distributed over the entire plant, habit well rounded.

Burford (*virginalis*), 9, Z 5, originated in England 1921—Single to semidouble flowers, 2 1/4 to 2 1/2-inch diameter.

Cole's Glorious (*Virginal x Rosace*), 6, Z 5, introduced by Cole Nursery Co. 1940—Flowers single, 2-inch diameter, very fragrant.

Conquete (*cymosus*), 6, Z 5, Lemoine 1903—Flowers single, 2-inch diameter, one of the most fragrant.

Erectus (*lemoinei*), 4, Z 5, Lemoine 1894—Flowers single, 1 1/4-inch diameter, very fragrant. This has not grown well in the Arnold Arboretum, but the habit is definitely erect, and in areas where it is hardy,

ROSES

Central Pennsylvania Grown
2-yr.-old, field-grown plants.
Hybrid Teas—Floribundas—Climbers

EVERGREENS

Landscape Material
Twice transplanted, regularly sheared.
Young, salable evergreens for cash-and-carry trade of garden shops, roadside markets and nurseries.

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"Treat's Trees"

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Certified for western shipment.

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Streets—Parks—Forests

Long Life—Strength—Coloring

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Any quantity available.
1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red Oak, Birch and Shadblow also available.

R. H. ROGERS NURSERY

COOPERSTOWN, N. Y.

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B&B

Field Liners

Potted Liners

Transplants

Seedlings

100 acres of evergreens for sale

HEASLEY'S NURSERIES

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Butler, Pa.

PACHYSANDRA

Terminalis (Japanese Spurge). The ideal permanent evergreen ground cover plant for shady and semi-shaded areas in all climates. Does well in sunny areas, too. Absolutely winter hardy in the most northern climates.

	Per 100	Per 1000	5000 or more
Strong, well-rooted, 1-yr. plants; propagated in soil and peat frames with light shade. . . .	Prepaid \$6.50	F.O.B. here \$53.00	in same shipment \$49.00

Available for prompt shipment throughout the year. Shipments anywhere including Canada. GOOD PACKING FREE. A good source of supply.

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TAXUS In varieties,
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Acer atropurpureum Bloodgood, Azaleas, Berberis, *Cornus florida* rubra, Evergreens, *Ilex*, Magnolias, Hybrid *Rhododendrons*, *Taxus*, in variety, etc., in 1, 2 and 3-yr. transplants at competitive prices. Write for list on business stationery.

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Deerfield, N. J.

SEEDLINGS & TRANSPLANTS

Pines, Spruces, Firs, Hemlocks, etc.
Write for new price list.

PINE GROVE NURSERY

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Clearfield, Pa.

BOBBINK NURSERIES, INC.

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Broad-Leaved Evergreens,
Shrubs and Trees.

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AZALEAS AND HEDGE PLANTS

Splendid stock.

Write for Price List.

DIAMOND STATE NURSERIES

MILFORD, DEL.

it should prove to be an interesting plant.

Fleur de Neige (*lemoinei*), 4, Z 5, Lemoine 1916—Flowers single, 1 1/4-inch diameter, very fragrant.

Frosty Morn, 4, Z 3, Guy D. Bush, Minneapolis, Minn.—This plant was patented (1174) March 10, 1953. The flowers are double and fragrant. It has been noted as withstanding the "coldest Minnesota winters without damage from freezing back." An excellent mock orange for cold areas.

Girandole (*lemoinei*), 4, Z 5, Lemoine 1916—Flowers double, 1 3/4-inch diameter, fragrant.

Glacier (*virginialis*), 5, Z 5, Lemoine 1914—Flowers double, 1 1/4-inch diameter, fragrant.

Innocence (*lemoinei*), 8, Z 5, Lemoine 1927—Flowers single, 1 3/4-inch diameter, very fragrant, with eight to 10 flowers in a cluster. It is one of the most fragrant.

Minnesota Snowflake (*virginialis* seedling), 6, Z 3, Guy D. Bush, 1935—A patented mock orange (538), said to be hardy to —30 degrees F. Flowers double (up to 44 petals), 1 1/2-inch diameter, fragrant, with three to seven flowers in each cluster. It is clothed with branches well to the ground, making an excellent specimen.

Mont Blanc (*lemoinei*), 4, Z 4, Lemoine 1896—Flowers single, 1 1/4-inch diameter, very fragrant; one of the hardier types.

Norma (*cymosus*), 6, Z 5, Lemoine 1914 — Flowers single, 1 3/4-inch diameter, fragrant.

Perle Blanche (*cymosus*), 6, Z 5, Lemoine 1900—Flowers single, 1 1/2-inch diameter and one of the most fragrant.

Virginal (*virginialis*), 9, Z 5, Lemoine 1907—Flowers double, 2-inch diameter, very fragrant. Its one drawback is that older plants have few leaves and branchlets at the base.

Philadelphus To Discard

A—differs little from species.
B—not superior to other species or varieties in recommended list.

C—of little ornamental value.

argenteus C—flowers small.

argyrocalyx C

burkwoodi B

californicus B

caucasicus C

confusus C

congestus C

cordifolius C

coronarius deutziaeflorus B

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame rooted cuttings, approximately 1 ft.

\$12.00 per 100; \$100.00 per 1000.

BEARDSLEE NURSERY

Perry, O.

CANALE'S FOREST NURSERY

Phone: Elderton, FLEETWOOD 4-2461

Shelocta, Pa.

	Per 100	Per 1000
Scotch Pine (<i>Pinus sylvestris</i>)		
2-yr., 2 to 4 ins.....	\$ 2.00	\$ 10.00
4 to 8 ins.....	4.00	20.00
3-yr., 8 to 14 ins.....	4.00	20.00
10 to 18 ins.....	5.50	28.00
4-yr., 12 to 20 ins.....	7.50	37.50

Special low prices on complete beds of 3 and 4-yr. **Scotch Pine**. Inquire for details.

French Scotch Pine		
2-yr., 1 to 3 ins.....	2.00	10.00
3 to 6 ins.....	4.50	22.50
3-yr., 7 to 15 ins.....	7.00	35.00
(2-2), 5 to 8 ins.....	8.00	40.00
7 to 12 ins.....	15.00	75.00

Spanish Scotch Pine		
2-yr., 1 to 3 ins.....	2.00	10.00
3 to 8 ins.....	4.50	22.50
3-yr., 6 to 12 ins.....	7.00	35.00

Riga Scotch Pine		
2-yr., 2 to 4 ins.....	2.00	10.00
4 to 8 ins.....	4.00	20.00
3-yr., 8 to 15 ins.....	4.00	20.00

Scotch Pine, transplants		
(2-2), 5 to 10 ins.....	10.00	50.00
10 to 15 ins.....	15.00	75.00
15 to 18 ins.....	25.00	....

Austrian Pine (<i>Pinus nigra</i>)		
2-yr., 1 to 3 ins.....	2.00	10.00
3 to 5 ins.....	4.00	20.00
3-yr., 8 to 15 ins.....	6.00	30.00

Red Pine (<i>Pinus resinosa</i>)		
2-yr., 2 to 4 ins.....	3.00	15.00
3-yr., 5 to 10 ins.....	5.00	25.00
4-yr., 8 to 14 ins.....	10.00	....
(2-2), 10 to 15 ins.....	15.00	....

White Pine (<i>Pinus strobus</i>)		
2-yr., 1 to 2 ins.....	2.00	10.00
2 to 4 ins.....	3.00	15.00

Mugho Pine (<i>Pinus mugo</i>)		
3-yr., 1 to 3 ins., height or spread.....	7.00	35.00
(2-2), 3 to 6 ins., 25c each		
(2-2), 6 to 12 ins., 50c each		

	Per 100	Per 1000
Ponderosa Pine (<i>Pinus ponderosa</i>)		
2-yr., 2 to 4 ins.....	\$ 2.00	\$ 10.00
4 to 8 ins.....	4.00	20.00
3-yr., 6 to 12 ins.....	5.00	25.00

Douglas Fir (<i>Pseudotsuga taxifolia glauca</i>)		
3-yr., 1 to 3 ins.....	3.00	15.00
3 to 8 ins.....	7.00	35.00
4-yr., 5 to 10 ins.....	9.00	45.00
8 to 13 ins.....	15.00	....
(2-2), 3 to 7 ins.....	10.00	50.00
(2-2), 7 to 12 ins.....	20.00	....

Concolor Fir (<i>Abies concolor</i>)		
2-yr., 2 to 4 ins.....	3.00	15.00
3-yr., 4 to 8 ins.....	11.00	55.00
(2-2), 4 to 8 ins.....	15.00	....

Balsam Fir (<i>Abies balsamea</i>)		
2-yr., 1 to 2 ins.....	3.00	15.00
3-yr., 2 to 4 ins.....	6.00	30.00
(2-2), 3 to 5 ins.....	12.50	....

White Spruce (<i>Picea pungens</i>)		
3-yr., 2 to 4 ins.....	2.50	12.50
4 to 8 ins.....	5.00	25.00
(2-2), 4 to 8 ins.....	10.00	50.00
8 to 15 ins.....	15.00	75.00
15 to 20 ins.....	30.00	150.00

Black Spruce (<i>Picea mariana</i>)		
2-yr., 2 to 4 ins.....	2.50	12.50

Black Hill White Spruce (<i>Picea glauca densata</i>)		
3-yr., 1 to 3 ins.....	2.50	12.50
3 to 6 ins.....	5.00	25.00
(2-2), 3 to 5 ins.....	10.00	50.00
5 to 10 ins.....	15.00	75.00

FOR TRANSPLANTING		
The size of the following seedlings is 1 to 2 in. No discount. Net price.		
Scotch Pine, \$7.50 per 1000		
Blue Spruce, \$8.00 per 1000		

Norway Spruce (<i>Picea abies</i>)		
2-yr., 2 to 4 ins.....	2.00	10.00
4 to 8 ins.....	4.00	20.00
3-yr., 5 to 10 ins.....	6.00	30.00
8 to 14 ins.....	8.00	40.00
(2-2), 3 to 6 ins.....	8.00	40.00
6 to 10 ins.....	13.00	65.00
10 to 16 ins.....	25.00	....

PLEASE NOTE

May we advise booking your order early—NOW—and avoid disappointment. Some items are in limited supply. May we therefore advise you to list secondary choices.

TERMS

Prices are F.O.B. Shelocta, Pa.

All orders to be accepted must be accompanied by a deposit of at least 25%, balance prior to shipping or order will be sent C.O.D. There is a 50c packing charge on seedling orders less than 1000. 5% discount on quantity purchases of 25,000 or more. Send want list for special quotation on large orders.

Order early. Earliest orders given preference for earliest shipping dates.

c. duplex B
c. primulaeflorus B
c. pumilus C
c. salicifolius B
c. speciosissimus B
c. variegatus C
cymosus—A hybrid species; it is best to plant only named clones.
delavayi B
d. calvescens A
d. melanocalyx A
falconeri B
floribundus B
floridus B
f. faxoni B
gordonianus B
g. columbianus A
grandiflorus B
hirsutus C
insignis C
laxus strigosus A
lemoniei—A hybrid species; only named clones should be selected.
lewisi C
maculiflorus C
magdalenae B
magnificus B
maximus B
mexicanus B
microphyllus B
monstrous B — differs little from P. pubescens
nepalensis C
nivalis B

EXTRA-FINE QUALITY

	Each
White Spruce	
2-yr., S., 8 to 12 ins.....	5c
Douglas Fir	
4-yr., T., 8 to 12 ins.....	12c

JONES TREE FARM
Shelton, Conn.

IMPORTED AND DOMESTIC TREE and SHRUB SEEDS

For Nurserymen and Christmas Tree Growers

FORESTRY ASSOCIATES

Office: 160 E. Hamilton St.
P. O. Box 1069 Allentown, Pa.

Finest Quality PERENNIALS and SHRUBS

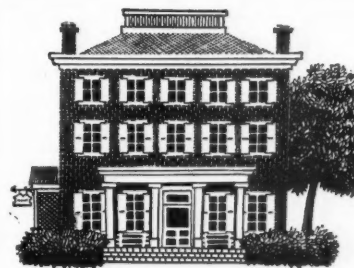
See our ad for Perennials under Hardy Plants in Classified.

KINGWOOD NURSERIES
Mentor, Ohio

SWEETHEART IVY

(*Hedera Helix* 238th St.)
Lovely heart-shaped leaves on sturdy stems. Extremely hardy. Per 100
Rooted cuttings.....\$15.00
2 1/2-in. pot plants.....25.00

GILSON GARDENS.
Perry, Ohio



Fine stock
at minimum prices

Specializing in

Junipers, Biotas, Taxus,
Broadleaves

See classified ad this issue.
Write for complete price list.

South Jersey

Colonial Nurseries, Inc.

Wholesale

R. D. 1, Salem, N. J. (Yellowstone 5-2356)

ENGLISH BOXWOOD

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 6x8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now.

3 to 4 ins., T.....\$10.00 per 100

AMERICAN BOXWOOD

Dark green foliage, makes a rapid, dense growth. Tolerates shade.

4 to 6 ins., T.....10e
6 to 8 ins., T.....15e

JAPANESE BOXWOOD

Apple-green leaves; does well in sun or shade. Will tolerate dense shade. Very rapid growing, good for foundation planting.

6 to 8 ins., 2-yr., T..\$10.00 per 100

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with azaleas and rhododendrons.

4 to 6 ins., T.....15e
6 to 8 ins., T.....20e

CHINESE MAGNOLIAS

All on own roots.

Soulangeana, pink; *soulangeana nigra*, dark purplish-pink; *rustica rubra*, pink; *alba superba*, white; *pink superba*, pink; *lanceol*, good pink; *stellata* (Star Magnolia), semidouble pure white; *alexandrina*, large, late pink. All 2-yr., 12 to 18 ins. and on own roots, 75e each. Minimum order, 5 of one kind.

Send for list of unusual plants.

ALANWOLD NURSERY

Neshaminy, Bucks Co., Pa.

Mention The American Nurseryman when you write.



TAXUS
F. & F. COMPACTA
IN
GOOD SUPPLY



n. plenus B
pekinensis B
p. brachybotrys A
p. kansuensis A
pendulifolius B
polyanthus — A hybrid species; select named clones.

pubescens B
p. intectus A
purpurascens venustus A
purpureo-maculatus — A hybrid species; most clones are hardy only in zone 7.

satumanus B
S. nikoensis A
sericanthus B
s. rehderianus A
serpyllifolius C
subcanus B
s. wilsoni B

tenuifolius B
tomentosus B
verrucosus B
virginalis — actually this is a hybrid species; it is best to select only the named clones, of which *Virginal* is one.

zeyheri B
z. kochianus A
z. umbellatus A
Amalthee B
Atlas B

Bicolor B
Bonje B
Campbell's Sdlg. B
Candelabre B
Coupe d'Argent B
Dame Blanche B

Dresden B
Edsoni B
Enchantment B
Etoile Rose B
Fantaisie B
Favorite B
Fimbriatus B
Fraicheur B
Galanthee B
Gerbe de Neige B
Gladwyne B
Gracieux B
Le Roi B

Manteau d'Hermine B
Mer de Glace B
Monster B
Mrs. Thompson B
Nuce Blanche B
Oeil de Pourpre B
Ophelia B
Patricia B
Pavillon Blanc B
Piramidale B
Romeo B
Rosace B
Silvia B
Sirene B
Souvenir de Billiard B
Surprise B
Sybille B (*purpureo-maculatus*)—Z 7
Sylviane B
Thelma B
VanHoutte B
Velleda B
Voie Lacte B

F. L. Skinner, Dropmore, Man., Canada, has been hybridizing many kinds of plants over a long period of years to obtain ornamentals better able to withstand the rugged climatic conditions of his area. He has named three mock oranges which might well be given further trial in the colder areas of the United States. As a rule he notes that all three can come through winter temperatures of -40 degrees F. without serious injury. These hardy mock oranges are described as follows:

Galahad, with fragrant flowers

PYRACANTHA LALANDI

5-qt. oil can, staked
Each Each Each
Per 10 Per 50 Per 100
18 to 24 ins.\$1.50 \$1.25 \$1.00

TAXUS CUSPIDATA

Heavy rooted, sheared Per 25
Per 10 or more
8 to 12 ins.\$2.00 \$1.75
12 to 18 ins.2.75 2.50
18 to 24 ins.4.00 3.75
24 to 30 ins.6.50 6.25

AMERICAN ARBORVITAE

Heavy sheared Per 50
Per 10 Per 25 or more
3 to 4 ft.\$3.25 \$3.00 \$2.75
4 to 5 ft.4.25 4.00 3.75

ANDORRA JUNIPER

(*Plumosa depressa*) Per 25
Per 10 or more
12 to 15 ins.\$1.65 \$1.50
15 to 24 ins.2.75 2.50

WAUKEGAN JUNIPER

Per 25
Per 10 or more
12 to 15 ins.\$1.50 \$1.35
15 to 24 ins.2.50 2.25
24 to 30 ins.3.50 3.25

BERBERIS JULIANAE

(Wintergreen Barberry) Per 25
Per 10 or more
12 to 15 ins.\$1.50 \$1.25
15 to 18 ins.2.75 2.50
24 to 30 ins.4.25 3.50

Many other landscape items; send your want list. Sorry, no price list.

SUMMIT PARK NURSERY

13 W. New Hempstead Rd.
Spring Valley, N. Y.
Phone: EL 6-1296

TAXUS LINERS

7-yr.-old, strong, heavy plants, XXX, \$85.00 per 100.

T. browni, 18 to 24 ins.

T. henryi, 18 to 24 ins.

T. wardi, 18 to 24 ins.

T. capitata, 18 to 24 ins.

Free packing. Cash with order, please.

BROOKFIELD GARDENS

U. S. Rt. 46
Delaware, N. J.

VOSTERS

NURSERIES AND
GREENHOUSES, INC.

Tropical Foliage
Plants for
Interior Decor

Main Office,
Secane, Pa.
(Suburban Philadelphia)
Cutler, Florida
Perrine, Florida
Wilmington, Delaware



NDI

Each
Per 100
\$1.00

Per 25
or more
\$1.75
2.50
3.75
6.25

TAE
Per 50
or more
\$2.75
3.75

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Per 25
or more
\$1.50
2.50

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Per 25
or more
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3.25

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Per 25
or more
\$1.25
2.50

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with



from the *Moraine Family*
of fine plants



Look for this tag.
It identifies
the genuine
MORAINÉ® LOCUST

THE **siebenthaler** COMPANY

3001 Catalpa Drive,
Dayton 5, Ohio

THE Moraine® Locust a proven profit-maker

Many nurserymen call it their most profitable single plant. Guaranteed thornless and seedless there are virtually no complaints with the Moraine Locust. National advertising and strong dealer sales aids make selling the Moraine Locust easy . . . and extra profitable.

QUANTITY	10 to 49	50 to 249	250 or more
ONE YEAR TOP, 3-year ROOT, Once Transplanted:			
5/6' whips	2.25	2.00	1.80
5/6' branched	2.75	2.50	2.25
6/7' whips	2.75	2.50	2.25
6/7' branched	3.35	3.00	2.70
7/8' whips	3.35	3.00	2.70
7/8' branched	4.00	3.60	3.25

LARGER SIZES AVAILABLE—Prices on request.

one inch in diameter and an upright habit.

Patricia, with fragrant flowers one inch in diameter, a seedling of Virginal.

Purity, with flowers two inches in diameter, also a seedling of Virginal.

The variety Cor Marie, patented January 3, 1956, by Robert L. Gardner, of Horicon, Wis., I know nothing about.

Beaulerck (Sybille x Burford), eight feet, a cross made in 1942 by Lewis Palmer, Headbourne, Worthy Grange, England, has flowers two and a half inches in diameter, five to seven in a cluster and fragrant. They are stained a faint purple at the base of the petals. This is greatly admired by Harold Hillier, of England, who states it is the only mock orange to be awarded a first-class certificate (in 1951) from the Royal Horticultural Society. It received an award of merit in 1947. However, it needs more trial in America. Some plants here have not proved outstanding, and we have found that many things may not perform so well in America as they do in England.

JAC-MAR NURSERY, Columbiaville, Mich., was recently purchased by Phillip E. Strom, formerly of Farmington, Mich.

1000 CORNUS FLORIDA

Nursery-Grown
Clumps and single stems.
4 to 5 ft., B.R., \$3.00; B&B, \$3.75
5 to 6 ft., B.R., \$4.00; B&B, \$5.00
6 to 8 ft., B&B, \$10.00.
F.O.B. South Bend, Ind. (Discount on large amounts.)

SUGAR MAPLE—PIN OAK

VAUGHAN'S NURSERY

15910 Cleveland Rd., R. R. 1
Granger, Ind.
Phone: South Bend, CEntral 3-3318

I L E X

Crenata convexa
(Japanese Holly)

	Each
10 to 12 ins., B&B	\$1.50
12 to 15 ins., B&B	2.00
15 to 18 ins., B&B	2.50

KINGWOOD NURSERIES

Mentor, Ohio

GOLDEN VICARY PRIVET
CALIFORNIA VARIEGATED PRIVET
LODENSE PRIVET

Outdoor rooted cuttings.
\$3.00 per 100; \$70.00 per 1000

GILSON GARDENS
Perry, Ohio

**Roses are red,
Violets are blue,
If you don't have Roses
What will you do???**

Answer: The smart buyer will call Bosley. We still have large quantities of the following roses and ample supplies of most varieties.

Buccaneer	Carrousel
Chrysler Imperial	El Capitan
Emily	Fan Tan
Gail Borden	Golden Girl
Golden Wings	Isobel Harkness
June Bride	Josephine Bruce
Love Song	(No. 1/2)
Mirandy	Michelle Meiland
Montezuma	Mojave
Pink Favorite	Peace
Tallyho	Queen Elizabeth
Gold Cup	Starfire
Blossomtime	Ivory Fashion
	Golden Showers

And many, many more good varieties to fill out your list.

Phone us at Painesville, O., ELmwood 2-3308 but do it NOW—Time is short; send for our FREE rose potting instructions.

BOSLEY NURSERIES, INC.
Mentor, Ohio

Ohio Nurserymen Present Lake County School

By Marie Brandstaetter

The 26th annual Lake county, Ohio, nurserymen's school was held February 9 at Hellriegel's Inn, Painesville, under the auspices of the Lake county agricultural extension service and the Lake County Nurserymen's Association. Registration this year totaled 145, including several visiting nurserymen from Pennsylvania and Michigan.

The morning session started at 9 o'clock, with Logan Monroe, Kingwood Nurseries, Mentor, president of the Lake County Nurserymen's Association, as chairman for the first part of the program. Color slides were shown of the area surrounding the Sagamore conference center of Syracuse University, where the nursery management conference sponsored by the American Association of Nurserymen was held last summer.

Commenting on this event were David Dugan, Perry; Melvin Wyant, Jr., Mentor; Paul Bosley, Jr., Mentor, and Hubert C. Horton, Painesville. All agreed that the benefits derived from this conference were worth far more than the registration fee.

Merchandising

Marvin C. Carbonneau, extension specialist, ornamental horticulture, Ohio State University, Columbus, discussed "Merchandising Nursery Stock," which covered a wide range of subjects including growing, promotion, marketing, pricing and salesmanship. This not only affects the retailer but also the wholesaler or producer of nursery products, for the success of the retailer in creating a desire for nursery products in the consumer is reflected in the quantity of stock the producer will be able to sell.

In a garden center or other retail outlet, the most important factor is the handling of the nursery stock so that it will not become damaged in the display area—so that first quality merchandise will be available for the customer's selection.

Special care should be given not only to plants, shrubs, roses and trees kept outdoors but also to merchandise stored on indoor shelves, such as bulbs, gardening supplies and sundries.

If the exterior and interior of the garden center are kept free from

rubbish and unsightly debris and merchandise is neatly and cleanly stored, the general appearance of the business place will create a good first impression, which builds customer confidence and invites inspection of nursery stock.

A thorough knowledge of plant materials, of course, is essential to successful operation of a garden center. The grower of the stock will be in a position to discuss the various uses of nursery stock with the garden center operator, and the study of nursery catalogs will provide additional information as to materials suited for certain locations or purposes in landscaping the home and yard.

For reference in his garden center, the retailer may well provide himself with a notebook which lists such

nursery stock, so that he will be in position to make recommendations when customers inquire about materials for specific situations in their gardening plans.

Labeled Plants Save Time

The tagging of plants should include the scientific and common names. The inclusion of basic planting instructions on a tag furnished with the plant or on a sign displayed with the merchandise will save considerable time for the seller. The tags or signs may also present color illustrations of flowering plants and general descriptions of the stock. The nurserymen were urged to promote Ohio-grown stock and to make it synonymous with quality.

Prepackaging of material improves its keeping qualities and ease of handling. Newly devised packaging methods utilizing polyethylene, foil and containers make for more attractive displays and additional sales. Container-grown shrubs and perennials available from wholesalers eliminate extra work for the garden center operator during his busy period.

Early ordering should be stressed

EVERGREENS, SHADE TREES FOR THE MIDWEST

Illinois-grown, transplanted, well-sheared, well-dug.

All hand-dug, B&B, with digging forms, assuring uniform solid balls.

	Each		Each
Juniper, Andorra		Juniper, chinensis pfitzeriana	
15 to 18 ins.	\$2.00	18 to 24 ins.	\$2.50
18 to 24 ins.	2.50	30 to 36 ins.	4.00
24 to 30 ins.	3.25	Juniper, keteleeri	
Juniper, hetzi glauca		3 to 3½ ft.	3.50
15 to 18 ins.	2.00	3½ to 4½ ft.	4.50
18 to 24 ins.	2.50	Juniper, virginiana burkii	
24 to 30 ins.	3.25	3½ ft.	3.50
30 to 36 ins.	4.00	3½ to 4½ ft.	4.50
Juniper, pfitzeriana compacta		Juniper, virginiana hilli Dundee	
15 to 18 ins.	2.00	3½ to 4 ft.	4.50
18 to 24 ins.	2.50	Juniper, Blue Pfitzer	
24 to 30 ins.	3.25	15 to 18 ins.	2.00
30 to 36 ins.	4.00	18 to 24 ins.	2.50
		3 to 4 ft.	5.00

Write or phone for more complete list and quantity discounts.

NORTHERN-GROWN, FAR ENOUGH SOUTH FOR EARLY SPRING DELIVERY.
ECONOMICAL TRUCK DELIVERY CAN BE ARRANGED.

H. B. HARTLINE FARM

(On U. S. 51, south of Carbondale, Ill.)

Makanda, Ill.

KOUSA DOGWOOD

	Each
5 ft., B&B	\$6.25
6 ft., B&B	7.50
7 ft., B&B	8.50

For a complete list see our ad in American Nurseryman, page 73, February 15 issue.

DUGAN NURSERIES, INC.

Center St.

Perry, Ohio

TREES FOR AMERICAN GARDENS

By Dr. Donald Wyman

Presents 745 recommended trees, giving botanical and common names, showing hardiness zones and maturity height. Describes desirable varieties. Discusses hardiness, bloom, ornamental fruit, foliage colors and trees for various purposes. Colored maps show hardiness zones. Secondary list of 1,600 species and varieties. 376 pages. (1951).

Price, \$8.00

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

in all advertising and promotion, so that customers will learn the value of planting early in the season when weather conditions are ideal for establishing the stock in its new location in the home garden or yard.

In conclusion, Mr. Carbonneau said that services rendered by the retail outlet in supplying first-quality stock and specific information are the determining factors in a successful business.

Panel on Cost Records

Several local nurserymen participated in a panel discussion on "How to Determine Costs and Cost Records." Dr. Kenneth Reisch, assistant professor of horticulture, Ohio State University, was moderator, and comments were made by Homer Hollar, Horton Nurseries, Inc., Painesville; Zophar Warner, Warner Nursery, Willoughby, and Gerard Klyn, Jr., Mentor. The importance of cost knowledge in establishing prices was stressed. Cost records also prove valuable in finding items that are a loss to one's operation.

The type of records kept by member firms varied in detail and included examination of individual plant types, plant groups or simply various operations utilized in the production of certain items. The degree to which cost accounting is carried out depends on the volume of business transacted and the ability of the firm to employ a cost accountant.

Mr. Warner added that an analysis of sales daily and weekly is also important. No matter how large or small the operation may be, it is necessary to keep records of labor, supply and repair costs; operating expenses; depreciation, and investments in new equipment as compared with income in order to maintain a sound financial condition.

Cost records serve to provide a working tool or guide as to where one stands and where costs may be cut. Accurate, up-to-date records are not only valuable for the present but provide material for future reference.

Details Rose Packing Costs

Mr. Klyn discussed his firm's method of cost accounting on packaging roses and other materials. Mimeographed sheets were distributed showing the various classifications that are considered in determining cost of packing.

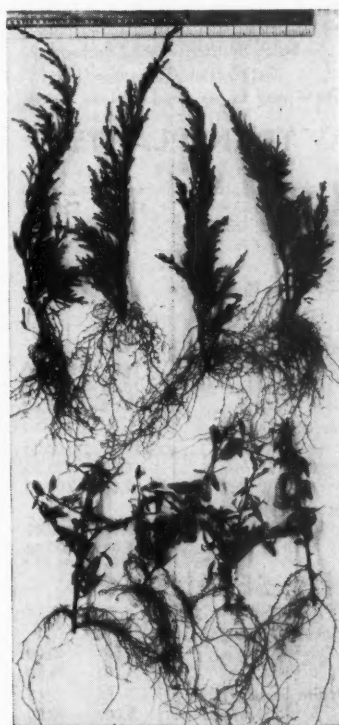
Some of these are materials (outer bag, polyethylene bag or liner, picture, patent tag, moss mix, the plant itself, twine, wax and glue), product shrinkage, supply spoilage, royalties, freight in, labor for packing and individual operations (assembling,



Forsythia Spring Glory, Lynwood Gold and Beatrix Farrand



New Stock Plants



Andorra Juniper (top) Pyracantha lalandi and Kasan (bottom)

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Bark Juniper, 6 to 10 ins.	.12
Blue Hetz Juniper, 6 to 10 ins.	.05
Pfitzer Juniper, 6 to 10 ins.	.06
Pfitzer Juniper, 6 to 8 ins., bands	.16
Euonymus patens, small or medium-leaved, 8 to 10 ins.	.04
Forsythia Beatrix Farrand, 6 to 12 ins.	.06
Forsythia Lynwood Gold, 8 to 12 ins.	.04
Forsythia Spring Glory, 8 to 12 ins.	.04
Euonymus coloratus, 8 to 10 ins.	.04
Pyracantha Kasan, 5 to 8 ins.	.05
Pyracantha lalandi, 5 to 8 ins.	.05
Less than 300, total order, 2c more per plant.	
Less than 50 of any item, 4c more per plant.	
Shipment now or book your order for spring.	
See classified under lining-out stock for other items.	

McININCH GREENHOUSES

St. Joseph, Mo.

EUONYMUS ALATUS COMPACTUS

Heavy, Well-Branched

	100 rate	1000 rate
15 to 18 ins.	\$0.75	\$0.65
18 to 24 ins.	.95	.85
2 to 2½ ft.	1.05	1.00

KINGWOOD NURSERIES

Mentor, Ohio

NORTHERN-GROWN EVERGREENS

Seedlings and Transplants

Ask for price list.

See our list in classified section.

C. WILSON'S NURSERY
Pembine, Wis.

FORSYTHIA

12 ins., outdoor rooted cuttings.

	Per 100	Per 1000
Beatrix Farrand	\$15.00	\$135.00
Lynwood Gold	10.00	80.00
Spring Glory	10.00	80.00

GILSON GARDENS
Perry, Ohio

NORTHERN-GROWN STOCK

Strict Grading — Well Packed
Satisfaction Guaranteed
There may be as good — None better.

TRANSPLANTS

3-yr., 2

Black Hills Spruce	Per 100	Per 1000
12 to 15 ins.	\$30.00	\$250.00
10 to 12 ins.	25.00	200.00
6 to 8 ins.	15.00	120.00
4 to 6 ins.	12.00	100.00
Colorado Blue Spruce		
6 to 8 ins.	15.00	120.00
4 to 6 ins.	12.00	100.00
American Arborvitae		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
8 to 10 ins.	10.00	80.00
Norway Spruce		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	12.00	100.00
Scotch Pine		
12 to 15 ins.	18.00	150.00
8 to 12 ins.	15.00	100.00

SEEDLINGS

3-yr.

Norway Spruce		
10 to 12 ins.	5.00	40.00
6 to 10 ins.	4.00	35.00
White Spruce		
6 to 10 ins.	5.00	40.00
Austrian Pine		
6 to 10 ins.	5.00	45.00
Douglas Fir, Snowy Mountain		
6 to 8 ins.	5.00	45.00
Platte River Red Cedar		
8 to 10 ins.	5.00	40.00
4 to 8 ins.	4.00	30.00

SEEDLINGS

2-yr.

Colorado Spruce		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 4 ins.	3.00	20.00
4 to 6 ins.	3.50	25.00
Scotch Pine, French		
2 to 4 ins.	3.00	20.00
Austrian Pine		
2 to 4 ins.	3.50	25.00
Mugho Pine, Tyrolean		
1 1/2 to 4 ins.	3.00	25.00
White Pine		
2 to 4 ins.	3.00	25.00
Norway Pine		
2 to 4 ins.	3.00	25.00
Douglas Fir, Snowy Mountain		
2 to 4 ins.	3.00	25.00
4 to 6 ins.	4.00	30.00
American Arborvitae		
2 to 4 ins.	3.00	20.00
4 to 6 ins.	3.50	25.00

FERNS

Ostrich Plume, very hardy
Part shade — part sun.
Large clumps, \$8.00 per 100

Plant 2-yr. seedlings for best transplants.

J. R. PALMER & SON
Blackduck, Minn.

trimming and tying the stock), freight out, selling and administration, operating expense and recommended profit. The cost figures for all these items are taken into consideration in establishing the selling price, whether it be retail or wholesale.

Mr. Hollar also gave a detailed report of his firm's daily records of propagation costs and sales, which are combined into weekly statements.

The last speaker before the noon recess was Nelson Pike, vice-president, Cleveland Trust Co., Cleveland, O., whose topic was "Taxes—Some Money Saving Tips." Mr. Pike was primarily concerned with the subjects of wills and estate settlement and distributed numerous informative booklets and pamphlets that dealt with these subjects.

Wills and estate planning are especially important to anyone engaged in business, because they determine what will happen to his business in the event of his death. The lack of cash or negotiable securities in sufficient amount may necessitate selling the business.

Mr. Pike also distributed 1960 tax tables for federal income tax, federal estate tax and federal gift tax.

Nomenclature

After lunch, the afternoon session began, with Edward Gilson, Perry, vice-president of the Lake County Nurserymen's Association, acting as chairman. Dr. Reisch was the first speaker, and his subject was "Nomenclature." To gain the customer's confidence and respect and to build a fine reputation, the nurseryman must not misrepresent or misname the stock he is offering.

The Ohio plant pest law decrees that all nursery stock sold or carried in the state shall be labeled either with the common or scientific name as recorded in "Standardized Plant Names," Rehder's "Manual of Cultivated Trees and Shrubs Hardy in North America" or Bailey's "Hortus." Despite state laws, incorrect labeling of plants and the misuse of names continue.

Dr. Reisch traced the history of nomenclature in the early days before Christ and its development in successive centuries. The first orderly registration of plant names occurred with the Swedish botanist Carolus Linnaeus (1707-1778) and his binomial system of nomenclature, in which plants are classified according to genus, species and variety.

The first attempt to standardize commercial plant names in the

New and Coming Sure-Fire Roses

BINGO

(Plant Pat. No. 1392)

A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.5. Suggested retail, \$2.25.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.40	\$1.25	\$1.125	\$1.05

Each 250 and up, 95c

PINK FRAGRANCE

(Plant Pat. No. 1493), A. R. S. 1958, 7.6. A many-petaled pink rose with outstanding, lustrous foliage. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.60	\$1.40	\$1.25	\$1.20

Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

The Monroe Nursery Co.

Monroe, Mich.

The Greening Nursery Co.

Monroe, Mich.

Peterson & Dering

Scappoose, Ore.

Shenandoah Nursery

Shenandoah, Ia.

Elmer Roses

6708 N. San Gabriel
San Gabriel, Calif.

TAXUS CUSPIDATA

(Spreading Yew)

Strong cuttings, heavily rooted.

THUJA PYRAMIDALIS

(Pyramidal Arborvitae)

Rooted cuttings, 6 to 8 ins.,
\$75.00 per 1000; \$40.00 per 500.

Cash with order, please.

Shipped to your door free.

50 Years of Growing Fine Plants

THE TEPPER NURSERY CO.

3871 Remembrance Rd.

Grand Rapids, Mich.

QUALITY

and service are cornerstones in a
successful nursery business.

Insure Customer Satisfaction . . .

Buy the Best!

Feature our extensive line of fast-selling, profit-making, quality landscape material.

For the Finest Service, Too . . .

Write, Wire, Phone or, even better, come on over and see us. We'll be happy to accommodate you!

SUNNYSIDE NURSERY

Rt. 1

Troy, Ill.

Phone: NOrmandy 7-2341



United States was made in 1917 in the form of the official code of standardized plant names prepared by a joint committee on horticultural nomenclature, of which the A. A. N. is a member. "Standardized Plant Names" was published in 1923, and the second edition (1948) served as an official list until January, 1959, when the official international rules for plant names became effective.

One of the purposes of the new code is to distinguish horticultural varieties from botanical, or naturally occurring, varieties. A mimeographed sheet giving a brief explanation of the new rules for plant names was distributed to those present. This referred to a booklet obtainable from the A. A. N. entitled "How to Name a New Plant," which gives all regulations for naming new plants and printing these names.

Research at O. S. U.

Continuing the afternoon program, Dr. L. C. Chadwick, professor of horticulture, Ohio State University, and James L. Caldwell, extension floriculturist, O. S. U., discussed "New Things from Research."

Captan was found to be the best fungicide for use in packing and storing bare-root rosebushes. A paper written by Dr. John P. Mahlstede, Iowa State University, Ames, "Marketing Bare-root Rose Plants," was discussed, particularly with reference to flowering and root growth of waxed roses.

Work in chemical control of weeds at O. S. U. was confined almost entirely during 1959 to the use of Simazine in taxus. The 1958 report showed that an application of two to four pounds per acre applied in November was highly effective in preventing early spring weed growth. Beds were kept clean up to mid-May but no later.

Tests this past year indicate that a 1½-pound rate of application per acre is nearly as effective, and this low rate of application is less likely to leave toxic residues. Nurserymen were advised to use the lower dosage, as there is less chance for injury, then cultivate when necessary and retreat the land.

A report of the Geigy Co., producer of Simazine, shows that, of the 400 types of ornamental plants on which the chemical was used in Europe and in this country, only 15 showed considerable damage from Simazine at the two pounds per acre rate.

Of the 15, only about eight are important to United States nursery-

B&B Stock for Spring, 1960

AUSTRIAN PINE

All stock B&B to New York state specifications tied or laced balls, platforms if needed.

9 years old—sheared 5 times.

	1 to 25	25 to 100
6000 3 to 4 ft.	\$ 5.25	\$ 4.75
5500 4 to 5 ft.	6.25	5.75
4500 5 to 6 ft.	8.00	7.50
4000 6 to 7 ft.	10.50	10.00
3500 7 to 8 ft.	14.00	13.00
3000 8 to 9 ft.	19.00	18.00
2500 9 to 10 ft.	24.00	23.00
2000 10 to 11 ft.	30.00	28.00

Select Scotch Pine

Black Hills Spruce, Red and White Pine

Available in any amounts.

2000 Acres of Trees under Cultivation

SEEDLINGS AND TRANSPLANTS

	Per 100	Per 1000
Austrian Pine		
(2-0), 2-yr., 4 to 6 ins.	\$ 5.00	\$27.50
(3-0), 3-yr., 7 to 10 ins.	8.00	40.00
Colorado Blue Spruce		
(3-0), 3-yr., 5 to 8 ins.	10.00	50.00
Norway Spruce		
(3-0), 3-yr., 5 to 9 ins.	8.00	45.00
Select Grade Scotch Pine		
French, Spanish and Polish		
(2-0), 2-yr., 5 to 8 ins.	5.00	27.50
(2-0), 2-yr., 4 to 6 ins.	4.00	25.00
Limited Supply		
(3-0), 3-yr., 10 to 14 ins.	8.00	45.00
Ideal for Transplanting		
(2-0), 2-yr., 2 to 4 ins.		15.00

TRANSPLANTS

	Per 100	Per 1000
Scotch Pine (2-1), 4 to 8 ins.	\$12.00	\$ 75.00
Norway Spruce (2-1), 5 to 9 ins.	15.00	85.00
Colorado Blue Spruce (2-1), 5 to 9 ins.	20.00	125.00

SMITH'S FOREST TREE NURSERY

Box 215 Phone: UN 6-2950 Magnolia, Ohio

BIG PINES

White and Red, 7 to 9 ft.

Root-Pruned and Sheared; Both Specimen and Screening Quality
Land Lease Expiring — Close-Out Prices

WAINSCOTT WINDBREAK NURSERY

630 W. Lincoln Ave.

Phone: LINcoln 4-4657

Belvidere, Ill.

Blue-Leaved Willow

	Each	Each
(Salix purpurea nana) Per 100 Per 1000		
9 to 12 ins., 1-yr., liners.	12c	10c
12 to 15 ins.	15c	13c
15 to 18 ins.	20c	18c

KINGWOOD NURSERIES
Mentor, Ohio

EUONYMUS

Outdoor rooted cuttings.

	Per 100	Per 1000
Alatus compactus	\$15.00	\$130.00
Coloratus	10.00	80.00
Silver Edge	15.00	130.00
Vegetus	10.00	80.00

GILSON GARDENS
Perry, Ohio

BENCH GRAFTS

Apple Grafts, in leading varieties
\$15.00 per 100; \$62.50 per 500;
\$100.00 per 1000

Flowering Crab Apple Grafts, in leading varieties
\$20.00 per 100; \$90.00 per 500;
\$150.00 per 1000

Apple Trees, 2 and 3-yr., in leading varieties

Each Per 100

11/16-in. cal. \$0.80
9/16-in. cal.60
7/16-in. cal.40

Amur River North Privet, 2 and 3-yr.
Per 1000

18 to 24 ins. \$ 90.00
2 to 3 ft. 125.00
3 to 4 ft. 170.00

Lining-Out Shade Trees, Native: Pin Oak, River Birch, Rubrum Maple, Sweet Gum

Per 100

3 to 4 ft., B. R. \$0.75
4 to 5 ft., B. R. 1.00
5 to 6 ft., B. R. 1.25
6 to 8 ft., B. R. 1.75

Montmorency Cherry

Per 100

300 9/16-in. cal. and up .. \$ 80.00
700 11/16-in. cal. and up .. 90.00

Sweet Cherry

100 11/16-in. cal. and up .. 110.00

Pfitzer Juniper

3000 30 to 40-in. spread,
well-sheared 275.00

Hetz Juniper

2000 30 to 40-in. spread,
well-sheared 275.00

NEED SHADE TREES? BOY! WE GOT 'EM!

Ash, European White Birch, Chinese Elm, Sweet Gum, Hackberry, Thornless Honey Locust, Moraine Locust, Kentucky Coffee Tree, American Linden, Crimson King Maple, Norway Maple, Rubrum Maple, Sugar Maple, Silver Maple, Pin Oak, Red Oak, Japanese Pagoda, Tulip Tree, Weeping Willow, Mimosa and Sycamore.

All trees grown in rows 8 ft. apart, 2 to 4 ft. apart in the row for better root and top development. Sizes on above trees 1 1/2 to 4-in. cal. Write for special prices on quantity or carloads. If you haven't received our new spring wholesale price list—write for one.

EGYPTIAN NURSERY & LANDSCAPE CO.

Farina, Ill.

2 miles north of Farina on R. 37

Phone: 3551

Night Phone: 3553 or 2641

men: *Abies homolepis*, *Larix decidua*, *Betula pubescens*, *Spiraea bumalda froebeli*, *Pseudotsuga douglasii*, *Ribes nigrum*, *Tilia cordata* and *platyphyllos*. Roses are extremely tolerant, except for *R. rugosa*, which is somewhat susceptible.

Injury has occurred primarily on young stock—1 and 2-year-old plants. Older plants, 3, 4 and 5 years old, have been tolerant to applications. Plants grown on heavy soil or soils high in organic materials have also shown injury.

Rooting Depth Also Important

Inasmuch as Simazine is confined to the upper surface of the soil and does not penetrate deeply, plants with root systems near the soil surface are affected more than deeper-rooted nursery stock. Susceptibility depends on age of plant, size of plant, depth of root system and time between transplanting and treatment.

Experiments also showed that slight symptoms of injury at two pounds per acre occurred in the following: Norway maple, *Callicarpa giraldi*, Japanese quince, *Forsythia spectabilis*, *Lonicera tatarica*, *Philadelphus virginialis*, *Ribes alpinum*, snowberry, *Deutzia gracilis*, *Ligustrum regelianum* and *ovalifolium* and *Pinus nigra*, *strobis* and *sylvestris*. The effectiveness of treatment depends on good moisture. At present little is known about the build-up of Simazine in the soil.

Research at O. S. U. on container production of nursery stock will be curtailed in 1960, according to Dr. Chadwick. This project has been followed for the past 10 years. Four phases of work in 1959 were growing media, fertilization, effect of container on root growth and winter protection.

Growing media for container-grown stock were evaluated on availability, water retention capacity and productivity. Other factors considered were root penetration, aeration and temperature relations.

Fertilizing studies indicated that more frequent fertilization is necessary, because of leaching. No root restriction was noticed in container-grown stock if material was handled correctly. Transplanting from 1-gallon to 2-gallon containers at the end of the first year produced a growth increase sufficient to warrant the additional cost in certain types of plants, such as *pyracantha*.

Winter Protection

Winter protection is one of the major factors involved in container production. Several methods of pro-

THE MEAD NURSERY

Rt. 3, Box 213

Oconomowoc, Wis.

Wholesale Growers
of Landscape Stock

French Lilacs

Flowering Crab Apples

Honey Locusts

Maples -- Willows

Euonymus Fortunei

Pfitzer Junipers

Write for List

ROSES

Quality and Service

**MENTOR
ROSE GROWERS, INC.**

MENTOR, O.

Write for your copy of
our current list.

PFITZER JUNIPER

Heavy Sheared

18 to 24 ins. \$2.00
24 to 30 ins. 2.50
30 to 36 ins. 3.00

NOLLAU NURSERIES

2012 W. Boulevard Belleville, Ill.

EVERGREEN TREE SEEDS

From the Great Lakes Region
Red Pine, White Pine, Red Cedar

BERTHA E. RHOADES
Merrillan, Wis.
Phone: EDison 3-2021

LINING-OUT STOCK

Fibrous Roots — Well-Grown — Liberally Graded

	100	1000	2500
	rate	rate	rate
Buxus koreana			
2400 2-yr., pot	\$.30	\$.28	\$.25
1300 3-yr., pot	.35	.32	.30
Forsythia Beatrix Farrand			
New, very large flower.			
300 2-yr., T., 15 to 18 ins.	.35	.30	..
Forsythia bronxiana , true dwarf			
200 2-yr., T., 8 to 12 ins.	.35	..	..
Forsythia Lynwood Gold ,			
grows erect, golden-yellow flowers.			
2200 2-yr., T., 8 to 12 ins., br.	.20	.18	..
2600 2-yr., T., 12 to 18 ins., br.	.25	.22	..
Hydrangea A. G.			
700 1-yr., 1½ to 2 ft.	.14	.13	..
Picea pungens moerhemi			
400 pot grafts	1.25	1.20	..

	100	1000	2500
	rate	rate	rate
Quercus robur fastigiata			
(Pyramidal Oak)			
700 2-yr., S.	\$.45	\$.40	..
160 4-yr., T., 15 to 18 ins.	1.00	..	..
125 4-yr., T., 2 to 3 ft.	1.50	..	..

	100	1000	2500
	rate	rate	rate
Teucrium chamaedrys , for low hedges			
500 2-yr., pot	\$.25	\$.22	..
Viburnum carlesii , from grafts			
375 3-yr., T., 12 to 15 ins., bushy	1.00	.80	..
Viburnum dentatum			
450 2-yr., T., 15 to 18 ins., bushy	.18	.15	..
Weigela vaniceki			
2000 1-yr., 1½ to 2 ft., br.	.25	.20	\$.18
1000 1-yr., 1½ to 2 ft., heavy br., ideal	..	..	..
for canning or mail order	.35	.30	..

	100	1000	2500
	rate	rate	rate
Flowering Crab Apples			
1-yr., grafts, br.	\$.35	\$.32	..
200 Cheal's Crimson, white flower, with bright red fruit	..	..	..
1000 Dorothea, pink	..	..	..
600 P. Lemoine, wine-red	..	..	..
325 P. Profusion, wine-red	..	..	..
700 Scheideckeri, double pink	..	..	..

TERMS: 2% 10 days; 30 days net; 3% for cash with order.



Telephones:
IV. 2-9021
IV. 2-9276

the cottage gardens

Nick I. W. Kriek — Harold E. Hicks

2707 W. St. Joseph St.

Lansing 17, Mich.

Just west of city limits on U.S. 27.

(OUR 36th YEAR)

tection were shown in slides used to illustrate Dr. Chadwick's talk. Mulches of corncocks, wood chips, gravel and baled straw were used as well as screen protection, snow fencing, lath and combinations of lath and paper or polyethylene. Plunging of containers and stacking of plants were also tried in the experiments.

Results indicate that the most economical and effective method of protecting container stock, particularly tender material, is to cover it with a frame or support over which 4-mil polyethylene is placed and then anchored at the sides and end of the structure.

George Gens, secretary-treasurer of the Ohio Nurserymen's Association, was responsible for bringing Herbert Zerkel, supervisor, Ohio department of taxation, division of sales, excise and highway use taxes, to this meeting.

The revision in the Ohio sales tax laws has created a great deal of controversy, and Mr. Zerkel attempted to eliminate the confusion by explaining the law in detail. Under the new revision, Ohio contractors who do planting pay sales tax on material purchased for immediate planting in a customer's yard or garden. If material is purchased for growing on in a contractor's nursery

SPECIMEN LANDSCAPE STOCK

For Spring, 1960, Delivery

	Each 1 to 25	Each 26 to 100
Canadian Hemlock , sheared plants		
4 to 4½ ft.	\$ 8.50	..
4½ to 5 ft.	10.50	..
Juniper, pfitzeriana		
2 to 2½ ft., sheared	3.50	\$3.00
3½ to 4 ft., sheared	4.50	4.00
Taxus cuspidata (Spreading Yew)		
12 to 15-in. spread	3.25	3.00
15 to 18-in. spread	4.00	3.50
Crataegus cordata (Washington Thorn)		
4 to 5 ft., 15-in. ball.	6.75	..
5 to 6 ft., 16-in. ball.	7.50	..
Cornus florida (White-Flowering Dogwood)		
5 to 6 ft., bushy	6.50	6.25
6 to 8 ft., bushy	8.00	7.50
Quercus cerris (Turkey Oak)		
1½ to 2-in. cal.	8.75	..
2 to 3-in. cal.	12.50	..

Order these trees now for spring delivery. Send for our complete list. Come to our nursery or phone: GL 6-4422.

FLORAL GARDENS NURSERY
Eaton, Ohio

DWARF HEDGING

Per 100 Per 1000

Blue-leaved Arctic Willow (Salix purpurea nana)		
9 to 12 ins.	\$12.00	\$100.00
12 to 15 ins.	15.00	125.00
15 to 18 ins. cmd up	20.00	180.00
Teucrium chamaedrys		
Top grade, field	20.00	180.00
Medium grade, field	18.00	150.00
Viburnum opulus nanum		
2-yr. field	50.00	450.00
3-yr.	65.00	600.00

Write for complete trade list.

KINGWOOD NURSERIES
Mentor, Ohio

PFITZER JUNIPER, B&B

Well Sheared

	Each
18 to 24 ins.	\$2.00
24 to 30 ins.	2.50
30 to 36 ins.	2.75
36 to 42 ins.	3.25
42 to 54 ins.	3.50
54 to 60 ins.	4.00

NEUMANN BROS.

Greenville, Ill.
Phone: 877-W1

NEOSHO NURSERIES

NEOSHO (Phone: GLeendale 1-1212) MISSOURI

QUALITY SURPLUS STOCK

SHADE TREES

	Each	Each		Each	Each
	Per 10	Per 100		Per 10	Per 100
CHINESE ELM			SYCAMORE		
4 to 5 ft.	\$0.40	\$0.30	5 to 6 ft.	\$1.00	\$0.85
5 to 6 ft. ....	.70	.60	6 to 8 ft.	1.75	1.50
6 to 8 ft.	1.10	1.00	8 to 10 ft.	2.50	2.25
SILVER MAPLE			1 1/2 to 2-in. cal.	3.75	3.50
5 to 6 ft.	1.00	.90	TULIP TREE, B&B		
10 to 12 ft.	2.75	2.50	5 to 6 ft.	3.00	2.75
1 1/2 to 2-in. cal.	3.25	3.00	6 to 8 ft.	5.00	4.50
2 to 2 1/2-in. cal.	4.50	4.25	1 1/2 to 2-in. cal.	11.00	10.00

Just a Few of Our Shade Tree Values

Neosho Fruit Trees
Apple • Cherry • Pear
Peach

California Roses
Good Selection of
Patents and Standards



Celebrating Our 50th Anniversary



King-Size Outdoor-Rooted Cuttings BEATRIX FARRAND

Forsythia

ARNOLD ARBORETUM INTRODUCTION

Brand-new beauty with golden florets often 2 ins. across — orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio

ARBORVITAE

Globe	Each	Pyramidal	Each
15 ins.	\$1.50	3 ft.	\$3.00
18 ins.	1.75	4 ft.	4.00
24 ins.	2.00	6 ft.	6.00
30 ins.	3.00	7 ft.	7.00

For a complete list see our ad in American Nurseryman, page 73, February 15 issue.

DUGAN NURSERIES, INC.

Center St.

Perry, Ohio

Northern-Grown Liners
Christmas Tree Seedlings
Potted Evergreens

Send for price list.

JOHN G. ZELENKA EVERGREEN NURSERY
Rt. 2, Grand Haven, Mich.



Write for literature and fair
trade price.

AUGUSTINE ASCENDING ELM
ASSOCIATES, INC.

932 E. 50th St., Chicago 15, Ill.

and then sold, 10 per cent of the selling price is taxable at 3 per cent.

Robert Partyka, extension plant pathologist, Ohio State University, speaking on "Nematodes and Disease Control," noted that sandy soil is ideal for nematodes. It warms up much sooner than heavier soils, allowing the nematodes greater freedom of movement, because of the soil consistency. Root growth is much faster in this type of soil, and this also tends to increase the nematode population. Nemagon and Fumazone were discussed as nematode controls.

The final speaker for the day was Dr. R. B. Neiswander, entomologist, Ohio agricultural experiment station, Wooster, whose subject was "Insect Control." Dr. Neiswander illustrated his talk with slides showing the insect pests and their effects on nursery stock.

One pest, the pine weevil, is frequently found in stumps left in the ground after Christmas trees are harvested. Its eggs are laid under the bark of the stump in early May. The beetles emerge in July and feed on new growth, flocking from one tree to another. A spraying program in early May will practically destroy the pest.

Examples of the flat-headed apple tree borer, woolly apple aphid and white scale on silver maples were also shown in the slides. The scale on silver maple causes leaves to turn black, but infestations usually disappear in two or three years, because of attacks by the pest's natural enemies. Dormant, Superior-type oil sprays were recommended as a control. Bulletins and detailed spraying information on these pests can be obtained directly from the Ohio experiment station, Wooster.

Concluding Banquet

To conclude the day's program, a banquet was held in the evening for members, wives and guests, carnation corsages being presented to the ladies. C. B. Montis, Cleveland, was the after-dinner speaker. He entertained the group with stories and little-known facts about famous Ohioans in literature, art, music and history.

Miss Marie Brandstaetter, secretary-treasurer of the Lake County Nurserymen's Association, was presented with a letter of thanks and a gift for her services in this post during the past 10 years. The presentation was made by Charles Kohankie, Painesville.

Members of the program committee who worked with F. G. Haskins,

REDMOND LINDEN

- for
- OUTSTANDING BEAUTY
 - COOLING SHADE
 - RAPID GROWTH
 - EASE OF MAINTENANCE
 - HARDINESS

Truly one of America's finest shade trees. Proved by more than 30 years of careful observation under various conditions.

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9 to 10 ft.	42.50	400.00
8 to 9 ft.	35.00	325.00
7 to 8 ft.	30.00	275.00

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This beautiful evergreen subshrub is acclaimed by leading horticulturists as the finest available in its category. Unexcelled as an edging or specimen in front of foundation plantings. Highly scented, rose-pink flowers cover the foliage in spring, bloom intermittently in summer and quite fully again in autumn. The plant itself never grows taller than 3 to 10 ins. Our strain has proved hardy and easy to grow. Complete planting directions furnished with each shipment. The material supplied is ideal for potting, canning or lining out in the field. Every year is a sellout, so order now to avoid disappointment.

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1-yr., 6 to 12 ins., bushy and branched	Per 10, 4.50; Per 100, 40.00
9 to 12 ins., sheared, B&B	Per 10, 12.50; Per 100, 100.00

P. O. Box 189

THE JOSEPH F. MARTIN CO., INC.

Painesville, O.

Lake county agricultural agent, in planning the program are Logan Monroe, Mentor; Edward Gilson; Alan Cook, Madison; Gerard C. Klyn, Mentor, and Hubert A. Horton, Painesville.

RECENTLY opened was the Bloodworth Nursery, Grenada, Miss., a branch of the Hawkins Azalea & Camellia Farms, Jackson, Miss. The business, located at 931 East View drive, will specialize in hedge materials and other shrubs.

STORAGE space for trucks and garden store products will be provided in a new Stran-Steel building, 32x100 feet, recently constructed by the Burwell Nursery & Garden Store, Columbus, O.

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*Zone 4

PYRACANTHA GOVERNMENT RED

A quite hardy Pyracantha that will grow in many areas. It produces a great quantity of red berries, set against lush deep green foliage.

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One of the hardest Pyracantha. This superior, selected strain insures you sprays of bright orange berries in profusion. Has a superior upright habit and lustrous-green foliage which make a luxurious green background for its berries and flowers. The most widely planted hardy Pyracantha.

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PYRACANTHA CREANATA-SERRATA GRABERI

A large vigorous growing Pyracantha, outstanding for its huge clusters of large red berries which turn their brilliant red in midseason; between Rose-dele and Victory—and are very attractive. Attractive upright grower with large leaves a dark green in color. Produces berries midseason.

*Zone 7

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A strong fast grower, with large dark green leaves. Its large glistening berries are the last to attain their intense red color, which is retained late into winter and early spring. Produces berries late.

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CORRA
A very patha with lush evened with a low and growth. Able to with weather and temperatow habit makes ta

PYRACANTHA
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Zone 7

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1 YEAR WITH POT GROWN PYRACANTHA LINEAS

PYRACANTHA COCCINEA WYATTI

This hardy Pyracantha with evergreen foliage produces an abundance of orange-red berries in early fall. A showy, highly desirable shrub with unlimited uses for hedge, color or foundation shrub. Tolerates poor soil.

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2 1/4" POTS
PER 100
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PYRACANTHA WALDERI PROSTRATA

This pyracantha has a low, spreading habit of growth which makes it ideal for bank or ground cover. It has unusually large berries, shining red in color, and produced in clusters. Walderi is very versatile for use in the landscape.

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Unique and delightful prostrata growing habit allows this Pyracantha to be used for ground covers, bank planting, or wherever a low growing shrub is desired. Covers itself with masses of large, red berries in fall. Has deep glossy green foliage.

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This hardy thornless Pyracantha, with dark glossy green foliage produces bright orange berries in fall. Has a vigorous habit of growth and adapts itself to any landscape.

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Number following description refers to minimum temperature "Hardiness Guide." See pages 40 and 41 of your MN general catalog.

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"JAVA RED" WEIGELA

(Weigela florida atropurpurea)

An easily grown RED-LEAVED WEIGELA with clear pink flower clusters.

Heavy outdoor rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

These two items are unusual, attractive and completely hardy in our locality. Order your stock early.

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Golden-leaved Forsythia with pale yellow flowers. Found by us in a flowering shrub border.

Heavy outdoor rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

Perry, Ohio

X Pin Oak (Quercus palustris) XX Red Oak (Quercus borealis rubra)

	Per 100	Per 1000
X, XX 9 to 12 ins., heavy	\$ 6.00	\$ 55.00
X, XX 12 to 18 ins., heavy	8.00	75.00
X, XX 18 to 24 ins., heavy	12.00	100.00
X, XX 2 to 3 ft., heavy	17.00	140.00
X, XX 3 to 4 ft., lightly br.	25.00	220.00
X 4 to 5 ft., lightly br.	35.00	300.00

We also have a plentiful supply of larger Pin Oak; also Red and White Oak, B&B sizes.

Cash with order. No packing charge.

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Austrian Pine, specimen, 4 to 5 ft. Medium grade, 3 to 8 ft., for highway bidding sales, etc.

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Arbovitae, 4 ft., sheared, root-
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Taxus hicksi, 18 to 24 ins.

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Seedlings—Transplants
Finished Stock
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Michigan Groups In Joint Meeting At Grand Rapids

By James Jones

The Grand Rapids Nursery and Landscape Association was host to members of the Kalamazoo Valley Landscape and Nursery Association at the joint midwinter conference of the two groups held February 2 at the Manger-Rowe hotel, Grand Rapids, Mich.

The general program was preceded by a business meeting of the G. R. N. L. A. at which the following officers were elected for 1960: Robert Tuinstra, Fruit Basket Gardens, president; Louis Romence, Romence Gardens, vice-president; James Jones, Jones Nursery & Landscape, secretary-treasurer, and Victor Scholl, Grand Rapids Modern Weed Control Co., vice-secretary-treasurer, all of Grand Rapids.

Ernest Durrant, Durrant Nurseries, Grand Rapids, was chosen as representative to the Michigan Association of Nurserymen (of which the group forms a chapter), and John Venman, Venman's Landscape Service & Nursery, Rockford, the outgoing president, was named alternate representative. The new director of the G. R. N. L. A. is Aart DeWit, Lincoln Nurseries, Grand Rapids.

The program proper was opened after lunch with an address by Mr. Venman, who welcomed the members of the Kalamazoo Valley group to Grand Rapids and introduced the first speaker, Dr. Donald Watson, Michigan State University, East Lansing. Dr. Watson, recently returned from a trip through Europe and Japan, gave an excellent talk on "European Gardens," illustrating his remarks with color slides.

"Weed Identification and Crab Grass Control" was discussed by Victor Scholl, who showed the collection of slides he has developed to illustrate distinguishing characteristics of various types of weeds. In addition to control methods, he also outlined the diagnostic value of weeds as indicators of soil problems and deficiencies.

After a coffee break, members of the two associations reconvened to hear George Ford, Detroit Free Press, speak on "Merchandising Through Advertising." Mr. Ford developed his subject by using actual examples of advertising programs and methods employed by both large

and small Detroit firms, noting the results obtained with them.

The annual banquet of the G. R. N. L. A. and the K. V. L. N. A. was held at 7 o'clock that evening, with Dr. Donald Wyman, Arnold Arboretum, Jamaica Plain, Mass., as guest speaker. Dr. Wyman's talk, "Ornamental Trees with at Least Two Seasons of Interest and Ground Covers for Every Purpose," was extremely interesting to the group. He brought attention to many recently introduced shrub and tree varieties of particular value for landscape planting as well as many older varieties that should be used more widely.

COLORADO MEETING

[Continued from page 19]

attended by three speakers—Arthur Thompson, credit manager of a Denver department store and president of a retail credit men's group; R. T. Hopkins, branch manager for California Spray-Chemical Corp. at Salt Lake City, Utah, and Carl J. Jorgensen, associate professor of horticulture, Colorado State University.

Mr. Thompson recommended that nurserymen offer optional pay plans similar to those used by many other retail businesses and that they learn to depend on local credit bureaus before making on-the-cuff sales.

Credit is the booming thing, Mr. Thompson said. At present, there are \$245 billion out on consumer credit. Many people want landscaping and other services or goods that they can obtain only through credit, and the nurseryman might as well share in this business.

Mr. Thompson cautioned against indiscriminate credit, however, and suggested that nurserymen join their local credit bureaus before starting credit business. The credit bureau provides answers to such questions as the customer's income, his obligations, his assets and his monthly payments—all important to a successful credit business.

He also advised nurserymen to offer optional payment plans, which permit the purchaser to pay in full with no interest or service charges up to 30 or 60 days. For longer periods, interest is charged on the unpaid balance. Sixty to 65 per cent of the accounts will be paid in the 30 to 60-day period to avoid the interest charge, Mr. Thompson said. But if it is not, the interest will help pay some of the costs of doing credit business. Payment plans similar to this are offered by most department stores now, he noted.

Mr. Hopkins conceded that the average homeowner now spends 53

SPRING, 1960

A few items in quantity.

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Maple, Norway
Maple, Columnar
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Maple, Silver
Maple, Sugar

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Prunus Thundercloud
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Willow, Thurlow
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Currant, Alpine
Barberry, Green
Barberry, Red
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All kinds of fruit trees, 1 and 2-yr.

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15 to 18 ins. (only 300), \$4.50

18 to 24 ins. (only 250), 5.80

Also Roseum and Fortunei types

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PIN OAK

(*Quercus palustris*)

	Each
5 to 6 ft.	\$2.00
6 to 8 ft.	3.00
8 to 10 ft.	4.00
1½ to 2-in. cal.	5.50

Well-branched, well-grown trees. Could be dug B&B. Economical transportation on full truckloads anywhere. Have pool loads to many areas.

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	Each
3 ft., B&B	\$2.50
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TEUCRIUM CHAMAEDRY'S

Attractive evergreen hardy border plant for edging walks and gardens. Foliage resembles English boxwood.

WELL-ROOTED OUTDOOR CUTTINGS

\$5.00 per 100

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Immediate delivery or at outside planting time.

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Roses — Rhododendrons
Magnolias — True Japanese Maples
Hollies — Taxus — Hardy Azaleas

Many other choice items. For 35 years.

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Euonymus alatus compactus Per 1000

2-yr., T., br., 4 to 8 ins. **\$150.00**

2-yr., T., br., 8 to 12 ins. **200.00**

Viburnum sterile

2-yr., T., 6 to 12 ins. **100.00**

2-yr., T., 12 to 18 ins. **120.00**



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Roses, Shrubs, Trees, Vines, Azaleas, Hollies, Rhododendrons, Evergreens, Fruit Trees, Perennials, Liners — Finished Stock — All Sizes.

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6 to 9-in. cal., B&B, transplanted, nursery-grown

At the junction of Routes 17 and 78, in Stark County.

Central Illinois Pioneer Nursery Since 1887



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TREES SHRUBS

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Wholesale growers of a general assortment for the best landscape plantings.

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Per 100

Japanese Maple, true red, cutting-grown,

2 1/2-in. peat pots **\$50.00**

Dwarf Red Barberry

2 1/2-in. peat pots **30.00**

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2 1/2-in. peat pots **35.00**

Magnolia soulangeana

2 1/2-in. peat pots **45.00**

CHAMPION NURSERIES

Perry, Ohio

PIN OAK SEEDLINGS

Per 100 Per 1000

6 to 12 ins. **\$ 6.00 \$ 55.00**

12 to 18 ins. **8.00 75.00**

18 to 24 ins. **12.00 100.00**

2 to 3 ft. **17.00 140.00**

*Well-branched, straight, good for cash sales.

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12th and Vilas Leavenworth, Kan.

For the finest in

NURSERY-GROWN SEEDLINGS

Write—
Forrest Keeling
Nursery
Elsberry, Mo.
Hugh Stevenson, Prop.

MISSOURI GROWN IS HARDY...

per cent of his landscape-garden dollar in nurseries and garden stores. But, he said, the trend is toward a return of the general store, which handles everything and draws far more buying traffic than the nursery. There is a great tendency for the manufacturer to go where the traffic is.

The speaker suggested six ways for the nurseryman to improve his business to combat the crisis of the supermarket: Be a hard buyer and select merchandise with a reputation behind it; diversify, unless you are a specialist, to take advantage of companion sales; advertise; work constantly to improve salesmanship; modernize store design and layout; analyze the business location with an eye to future needs and move if necessary to get the traffic, the parking area and the expansion space needed.

The speaker termed advertising as the prime factor in increasing nursery sales. Certainly nurserymen should advertise collectively, he said. Last year, 65 per cent of Colorado's green goods sales were made by out-of-state firms. The association should advertise to encourage these buyers to buy from their local nurseries. Joint effort should be considered for printing a good, colorful catalog to mail to customers.

Just as certainly, the nurseryman should advertise his own business in local advertising media. Advertise also with attractive signs at the store and with a modern, clean building inside and out. Advertise it by identifying staff experts and advertise equipment with signs that are changed as seasonal work changes.

Mr. Jorgensen suggested the nurserymen should keep their stores and merchandising policies up to date. Maintain a good, solid pricing policy, he said. Keep the public area of the business neat and attractive and display merchandise in mass, with price tags. He proposed that each nurseryman provide a place where customers can sit, relax and think about their needs. And, he added, to make shopping more convenient for many families, one might open the store in the evenings part of the week.

Container Soil Mix Described

Most Colorado nurserymen have the ingredients for 60 per cent of a good container soil right in their own back yards, Dr. W. D. Holly, professor of horticulture at Colorado State University, told the group. Dr. Holly said the sandy or clay loam soil typical of most Colorado areas can be



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—Finest Miami Valley Grown Stock—

Ornamental Shrubs

Barberry, Crimson Pygmy
Barberry, mentorensis
Cydonia, red, upright
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Forsythia, in variety
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Fruit Trees

Apple — Peach
Sweet and Sour Cherry
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New 'Midnite' Blackberry



Small Fruits

Red and Black Raspberries
Blackberries — Blueberries
Currants and Gooseberries
Rhubarb and Asparagus

Evergreens

Euonymus Sarcoxie
Juniper, burki, keteleeri
Taxus hicksi
Mahonia

Lining-Out Stock

Barberry, Crimson Pygmy
Euonymus Sarcoxie
Cotoneaster wilsoni
Viburnum mariesi
Weigela vaniceki
Pyracantha runyoni
Korean Boxwood
Biota aurea nana
Taxus capitata

Send for Complete Trade List and Prices of Fruits, Ornamental Shrubs, Vines, Evergreens, Special Mail-Order Items and Lining-Out Stock.



Hardy Northern-Grown Stock at WHOLESALE

JEWELL NURSERIES, Inc.

Write for Price List.

Box 457, LAKE CITY, MINN.

mixed about 60-40 with peat to provide the container soil nurserymen need—a soil that, when saturated, will still possess a 50 per cent air capacity.

The basic loam must be good soil, however, he cautioned. It has to take water and it should not have a high alkaline content. Most Colorado soils are well supplied with the necessary trace elements, and nitrogen and other fertilizers can be added as needed.

He suggested that the nurserymen give the soil a physical test to learn if it will take water. Select several samples of good loam and place them in containers, he said. Then fill the containers with water and, as soon as the water level goes down, refill them. Repeating the process a dozen

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

69 Orchard St. FREDONIA, N. Y.

times or so will show which of the soils takes water best.

Then, he said, mix samples of the best loam stock with 20, 30 and 40 per cent peat and run the test again, to determine which is the best mix-

TESTED TREE SEEDS

For Immediate Shipment

Germination test results sent with each shipment.

	Per Lb.
Norway Spruce	\$3.49
White Spruce	3.49
Colorado Blue Spruce	9.79
Mugo Pine	4.38
American Red Pine	7.76
Scotch Pine, French Auvergne	4.66
American Arborvitae	5.43

Cash, please. Minimum order, \$5.00. Minimum quantity, ¼ lb. Please include sufficient postage.

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ture to use for container growing. When the average sandy loam is removed from its subsoil and put in



LINERS

Some of the best we've had in years... open field, bed grown. Just right for field planting or use the larger sizes for potting and immediate resale.



4-YR., XX

	Each Per 100	Each Per 500	Each Per 1000
Taxus cuspidata			
8 to 10 ins., heavy	\$.50	\$.45	\$.40
Juniper, Pfitzer and Hetz			
6 to 9 ins.	.40	.35	.30
9 to 12 ins.	.50	.45	.40
Juniper, Hetz			
12 to 15 ins.	.65	.60	.55
Arborvitae, Dark Green			
9 to 12 ins.	.50	.45	.40
12 to 15 ins.	.60	.55	.50
Arborvitae, Woodward			
6 to 9 ins.	.45	.40	.35
9 to 12 ins.	.55	.50	.45

No packing charges.



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Mention The American Nurseryman when you write.

SHRUBS

2-yr., field-grown, T.

	Per 10	Per 100
Calycanthus floridus		
18 to 24 ins.	\$3.00	
Vitex macrophylla , 18 to 24 ins.	2.75	\$25.00
Lynwood Gold Forsythia , 18 to 24 ins.	2.75	25.00
2 to 3 ft.	3.75	32.50
Spring Glory Forsythia , 18 to 24 ins.	2.50	22.50
Hansen's Bush Cherry , 18 to 24 ins.	2.50	20.00
Persian Purple Lilac , 18 to 24 ins.	2.50	20.00
Philadelphus virginialis , 18 to 24 ins.	3.50	30.00
Cydonia japonica , 15 to 18 ins.	1.75	15.00
Spiraea Anthony Waterer , 12 to 15 ins.	3.50	30.00
Spiraea vanhouttei , 18 to 24 ins.	2.00	17.50
Spiraea macrothyrsa , 18 to 24 ins.	4.50	35.00
Amur River North Privet , 18 to 24 ins.	1.25	10.00
2 to 3 ft.	1.75	13.00
Dwarf Blue-Leaved Aretle Willow , 15 to 20 ins.	2.25	18.00

Terms: 20% deposit with order. Balance before shipment or C.O.D. All cash with order earns 2% discount. Write for wholesale bulletin offering complete listing of fruit and ornamental trees, shrubs and fruit plants.

R. C. WHITTEN'S NURSERY
Bridgman, Mich.

a container, the soil's water-holding capacity is doubled and aeration capacity is reduced by a third, he said. A good peat increases water-holding capacity and, more important, increases porosity of the soil. Porosity, or air capacity, is necessary for root growth.

Tree Repair Panel

A discussion of repairing storm-damaged trees provided a highlight of the course. Most trees along the eastern slope of the Colorado Rockies were still in full leaf last fall when a sudden snowstorm blasted over the hills. The result was damage ranging from total loss to minor breakage of trees from Fort Collins south through Denver to Colorado Springs. Permanent traces left on many trees, despite the efforts of treemen, have raised questions about how best to treat and repair damage.

Homer L. Jacobs, vice-president in charge of research, Davey Tree Expert Co., Kent, O., the first speaker on the panel, suggested that storm damage repair is a matter of practicing good tree care, to its greatest extent. Climatic catastrophe does more damage to the structural strength of the tree, Mr. Jacobs pointed out; its physiological health is also damaged through loss of growing points, and it becomes susceptible to inroads of insects and parasitic disease.

Mr. Jacobs recommended removing broken branches with an eye toward saving as much of the tree structure as possible. Cut at a point where good healing will be established, he said, but leave as much live growth as possible, to rebuild the structure.

Other Useful Measures

He advised the tree men to cable and bolt split forks if possible, to use wrappings on the valuable shade trees which are worth more than just cleaning up, to protect the trees with generous DDT washes and to use wound dressings.

After damage of this sort, an increase in the secondary borers—the whole host of borers that is always around looking for weak trees—can be expected. Protect a tree against them by using chemicals and by such practices as saving sucker growth that might shade the vulnerable areas.

He also pointed out that the high loss of growing points might mean the tree will have more root push than it can take the first few months. Pruning and feeding practices should be done with this in mind.

Earl Sinnamon, Swingle Tree Surgery Co., Denver, one of the panel-

SPRING STOCK

Each
Per 100

Viburnum carlesii
24 to 30 ins., B&B \$2.00
30 to 36 ins. 2.50

Viburnum carlesii, from a field we must clear. Bare-root only. Strong, bushy plants.
3 to 4 ft. 1.75

Ilex crenata rotundifolia
Sheared and bushy.
15 to 18 ins., B&B 2.25
18 to 24 ins., B&B 2.75
24 to 30 ins., B&B 3.25

- **Taxus media Amherst**
- **Taxus media Seblan**
- **Taxus media Ward**
- **Columnar Norway Maple**
- **Red-Flowering Buckeye**
- **Yellowbeam Mountain Ash**

Send for list.

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Introducing

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18 to 24 ins.	30.00	250.00
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Rooted cuttings for landscape planting.
\$7.50 per 100; \$65.00 per 1000

BEARDSLEE NURSERY

Ferry, Ohio

ists, told the group that most trees in the snow area suffered some damage regardless of age, vigor, location or previous care. Only a few of the flexible trees, such as white birches, willow and weeping mulberry, and some of the fine textured trees, such as the linden, came through in uniformly good condition. Cottonwoods and evergreens were almost unscathed.

Other panelists, Tony Prante, of Reliable Tree Co., Denver, and Stanley Brown, of Alameda Nursery, Denver, noted that trees with good structural framework and proper pruning had less damage.

Mr. Sinnamon said that the state had experienced a similar severe early storm in 1937. And, he said, "in spite of man's efforts to help those damaged trees, they have recovered."

Useful Broad-Leaved Evergreens

Four veteran nurserymen serving as panelists for a discussion of broad-leaved evergreens in Colorado expressed the opinion that Colorado nurserymen will never be able to sell a wide variety of broad-leaved evergreens, because of the warm sun and sudden temperature changes which typify the state's winter climate. But they can have a far greater variety than they now have.

The panelists were Scott Wilmore, W. W. Wilmore Nurseries, Inc.; Al Foster, Kroh Bros. Nursery, Loveland; George Kelly, Cottonwood Garden Shop, Littleton, and Harry Swift, Western Evergreens, Denver. Panel moderator was Carl J. Jorgensen, associate professor of horticulture, Colorado State College.

State nurserymen now depend primarily on three genera of broad-leaved evergreens for landscaping, the panelists agreed. And even these three—mahonia, pyracantha and upright euonymus—seem to do best with a northern or eastern exposure that protects them from Colorado's drying winter sunlight.

Plants native to this region offer good possibilities for expanding the broad-leaved evergreen listings, the panelists said, though there is still much to be learned about how to handle them.

Mr. Swift, who has been propagating native shrubs and small trees for several years, said the curl leaf mountain mahogany, *Cercocarpus ledifolius*, is outstanding and has been proved in four years of nursery growing. Other promising plants mentioned included Mahonia repens, Pachistima myrsinites, the kinnikinnik, yucca, cliff rose and Apache plume.

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	Each Per 10	Each Per 100	Each Per 1000
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18 to 24 ins., TTT.	\$1.45	\$1.35	\$1.25
15 to 18 ins., TTT.	1.10	1.00	.90
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15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins. TTT.85	.80	.75
Juniper, Savin			
15 to 18 ins., TTT.	1.10	1.00	.90
12 to 15 ins. TTT.85	.80	.75

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300 Acer dasycarpum, 1¾ to 2-in. cal.	500 Juniper, virginiana burki, 4 to 4½ ft.
200 American Sycamore, 1¾ to 2-in. cal.	500 Juniper, chinensis mas, 4 to 4½ ft.
500 Juniper, virginiana canaerti, 4 to 4½ ft.	

CASSINELLI'S GLENDALE NURSERIES, INC.

(Cincinnati)

Glendale, Hamilton Co., Ohio

PLANT NOTES HERE AND THERE

By C. W. Wood

Propagating Named Tradescantias

A beginner in commercial plant culture writes that he has a good demand for the government varieties of *Tradescantia virginiana*, more, in fact, than he is able to supply by growing the plants from divisions. I can well see that one could starve to death trying to grow from divisions stock of such superb plants as the nonspreading J. C. Weguelin. Fortunately, though, all these kinds can be multiplied from cuttings of the growing shoots. They may be rooted in the cutting bed or even, if necessary, in water. Although I have never tried it myself, I have noticed that a few commercial growers and even a few amateurs are growing the plants from little tufts of leaves which sometimes appear at the nodes and in flower clusters, especially in those kinds that do not extend their crowns rapidly, of which J. C. Weguelin is an example. These tufts are rubbed off with a heel and rooted in the cutting frame.

Phlox Nivalis

Answering a Maryland reader who wants to know how to distinguish between *Phlox nivalis* and *P. subulata*, I must say first that the subulata phloxes are a complicated lot, far too complex for a mere gardener like me to unravel. Dr. Wherry has done this for the botanists, but his "simple" treatment is still too much for me. So I shall have to tell in my own unscientific way how I distinguish between these two plants. I have long thought that the surest way to tell them apart is by the stamens, those of *P. nivalis* not showing above the tube, while those of *P. subulata* always extend above the tube. My faith in that differentiation received a severe jolt a couple of years ago when I examined living specimens in a botanical garden and found exserted stamens on material marked *P. nivalis*; but I tell myself that the botanist did not know what he was doing when he made and placed that label. There are less constant characteristics which may help to identify plants, including size of flowers and leaves, the former usually being twice as large and the latter twice as long as in *P. nivalis*.

The shape and color of *P. nivalis* flowers on plants I have grown from seeds show an amazing variation.

The shape may run from the full-petaled forms, such as the variety Camla and a host of others, to forms with little narrow petals, sometimes twisted, and the color ranges from pure white through myriad shades of pink to very deep pink, though I never have seen a suggestion of magenta in any. Although I did not find an acid soil an absolute necessity for *P. nivalis*, it grew better and produced more flowers in a neutral or slightly acid soil.

Best of Nivalis Group

The best of the *P. nivalis* group are among the best of the small phloxes and hold much promise for the plant breeder. I am of the opinion that it would not take long to get a summer-long bloomer by selection. I often had spring and fall-flowering plants from ordinary forms merely by giving them slight acidity and moisture throughout the growing year. One more plant trait noticed in my trials was that one is

likely to run into trouble if the plants are moved when they are at the height of growth in spring, although that can be avoided if the plants are cut back about one half before they are dug. I found that in the climate of northern Michigan *P. nivalis*, as well as *P. subulata*, is best propagated from cuttings rubbed off in early September, with a heel, and rooted in an open frame of sandy, well-drained soil. Cuttings should be shaded a little at first, but later left open and grown in the bed over winter. They should be 90 per cent rooted in spring and ready to be lined out.

Root Cuttings

An Illinois reader desires to know what I mean by root cuttings, to which I have referred at times, and how they have to be handled.

A root cutting is exactly what the two words imply—a cutting made of a plant's root, usually a fleshy one. Generally speaking, late fall or

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early winter is the preferred time among commercial propagators to do the work, largely because workers are less rushed than at other times of the year, although most of the plants are dormant at that time and are handled with least difficulty. Operating at that time of year it is necessary for one to have some glassed-in area, either a propagating pit or cool greenhouse; otherwise, it would be necessary to take the cuttings in late summer and then winter them in a protected frame.

A large number of popular perennials, including the summer perennial phlox, Japanese anemone, *Anchusa azurea* (P. italica to most), and Oriental poppy, are best handled in this way. Where large numbers are to be propagated, the entire plant should be dug and the fleshy roots cut off near the crown; if needed, the old plant may be put back in the soil and kept watered until it has established itself again; or it may be divided and the pieces with roots reset for future use. The severed roots are then cut into 2-inch lengths, the cuts made straight across at the top and slanted at the bottom to prevent the cuttings from being inserted upside down. They should be dibbled in about two inches apart and the tops just covered with soil. Although the type of soil used seems not so important as propagators once thought, best results are likely to follow if a light medium is used; in fact, I prefer pure sand if the cuttings are to be lined out as soon as top and root action justify handling.

Thoughts on Early Daffodils

I have always been told there is nothing pleasant about growing old, but these sentiments must have come from nongardeners, because a person who grows old in the garden and with its literature has made so many congenial friends that aging cannot be other than a joyous process. There is not room here to amplify the foregoing observation, even if it were necessary to carry on what I propose to say about early-flowering daffodils, but I am reminded of the truth of what I just said by a recent exchange of letters with an old friend on the subject of early-flowering daffodils.

Among other things, he wrote as follows: "About 40 years ago you wrote a little piece for an amateur publication on early daffodils that opened up an entirely new avenue of interest to me. I do not now remember the species you mentioned, but that would make little difference. I am sure, though, that you could

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	Per 10	Per 100
2-yr., 5 to 6 ft., 11/16-in. cal., br.....	\$8.50	\$75.00
2-yr., 4 to 5 ft., 9/16-in. cal., br.....	7.50	65.00
2-yr., 3 to 4 ft., 7/16-in. cal., br.....	6.00	50.00

Anoka	Jonathan, double red	Winesap
Delicious, double red	Lodi	Yellow Delicious
Delicious, early double red	Stayman, double red	Yellow Transparent
Early Harvest	Summer Rambo, red	Yorking, red
Grimes Golden	Williams, early red	

NOTE: On lots of 300 or more, submit want list for special quantity prices.

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5-In-1, 2-yr., 5 to 6 ft., 11/16-in. cal.....	\$18.50	\$175.00
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4-In-1, 2-yr., 5 to 6 ft., 11/16-in. cal.....	16.50	150.00
4-In-1, 2-yr., 4 to 5 ft., 9/16-in. cal.....	14.00	125.00

DWARF APPLE

	Per 10	Per 100
2-yr., 4 to 6 ft., br.....	\$17.50	\$160.00
2-yr., 3 to 4 ft., br.....	15.00	140.00

Delicious, double red	Summer Rambo	Yellow Transparent
Stayman, double red	Yellow Delicious	

PEACH

	Per 10	Per 100
5 to 6 ft., 11/16-in. cal.....	\$7.00	\$60.00
4 to 5 ft., 9/16-in. cal.....	6.00	50.00

Cardinal	Golden Jubilee	Rio-Oso-Gem
Coronet	Halehaven	Shipper's Red
Dixigem	J. H. Hale	South Haven
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6 to 7 ft.....	\$13.50	\$125.00
4 to 6 ft.....	12.00	110.00

Abundance	Mammoth Golden	Red June
Burbank	Methley	Shropshire Damson
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Coniferous Evergreens	Shade Trees	Vines and Ground Covers

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Quince, A—St. Julien, A

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Heavy field liners, \$30.00 per 100; \$250.00 per 1000. Pot plant liners (spring only), \$30.00 per 100; \$250.00 per 1000.

BEARDSLEE NURSERY

Perry, Ohio

excite much interest in these subjects among American Nurseryman readers if you would give us something like that item I am talking about." I do not find anything in my files to correspond even remotely with our friend's specification, although I do find a note among my unused manuscripts written about 20 years ago, which I shall give below in the hope that it will help our friend and others:

One has only to garden in the north, where the winters seem interminable, to appreciate the value of the earliest daffodils. They are not to be found, of course, among the big fellows in the border, but rather they are to be looked for among the species, which are usually tucked away in an odd corner of the bulb catalogs, if they are to be found at all.

Of the ones that I have grown, *Narcissus minimus*, a tiny, 3-inch fairy of rich yellow, is the earliest. The cyclamen-flowered daffodil, *N. cyclamineus*, follows it closely in flowering season, producing its bright yellow flowers with fluted trumpets on 4-inch stems. Another form of *N. cyclamineus*, known as variety major, is only a little larger in all its parts than the type and is definitely earlier, crowding and sometimes beating *N. minimus* to the honor of being the first to bloom.

Both kinds mentioned require somewhat different treatment than most daffodils, in that they call for a moist soil while they are in a vegetative state. Having nothing like that available in my dry garden, I gave them a forward position in the rock garden, where they could get the first awakening warmth of the returning sun and where, at the same time, they could be watered if conditions called for it. Growing the plants under such conditions and providing a little peat in the soil make for a long, merry life.

Tender Bulbs

An inquiry about the handling of the Jacobean lily, *Sprekelia formosissima*, in cold sections, prompts me

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2 1/4-in. pot, \$10.00 per 100; \$90.00 per 1000

2 1/4-in. pot, 2 plants, \$15.00 per 100

3-in. pot, 3 plants, \$25.00 per 100

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(*Salix discolor*)

	Per 100	Per 1000
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18 to 24 ins.	28.00	250.00
2 to 3 ft.	30.00	270.00

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TAXUS

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New Augusta, Ind.

to say a few words about a few of the tender and half-hardy bulbs which neighborhood growers can handle at a profit.

For years, I, like most gardeners, thought that the Mexican amaryllid, *Sprekelia formosissima*, had to be planted in pots, but I learned from a friend that the dormant bulb can be treated like the gladiolus, which made the handling of this plant much easier. I think that neighborhood growers could work the *S. formosissima* into their schedules to their own advantage and to the enrichment of their customers' gardens. Planted out in spring, the plants soon shoot up a scape to the height of a foot or so before the leaves appear, which ends in brilliant red flowers as much as four inches long. After the foliage dies away, the bulbs are dug and stored like gladiolus corms.

The so-called hardy amaryllis, *Lycoris squamigera* (*Amaryllis halli*, of some), although not tender, deserves notice in this brief resume. It is a 2-way crop in the hands of the neighborhood grower, yielding long-lasting and readily salable cut flowers and bulbs. It did best in my trials in a partly shaded situation in leafy soil, though it is very tolerant, doing well in almost any spot that is well drained.

The basket flower, *Hymenocallis calathina* (*Ismene calathina*, of some) is a beautiful thing, a gloriously beautiful thing, I might say, when well grown. However, it is rather eccentric. For long, it was thought that poor growth, greenish flowers instead of pure white, and even nonblooming resulted from growing the bulbs in heavy soil. I still believe that a sandy soil is necessary for permanent success with this South American amaryllid. However, my trials show that winter storage in a warm temperature of at least 50 degrees is of more importance. I recommend growing this plant in a light soil and storing it warm, if one wants to see the utmost in beauty in its large, pure white basket flowers.

It seems to me that the time has come for a renewal of interest in the tuberose. It is unfortunate that a plant of such great merit was used to such an extent that everyone became tired of it. Now it has been out of favor so long and is so seldom seen that modern gardeners do not know this plant when they see it. Nurserymen might be surprised by the favorable reaction of their customers if they showed them a planting of tuberose next summer. The plants should be handled like the basket flower, planted out after set-

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No. 1, R. C.	\$3.00	\$20.00	\$150.00
	2.00	15.00	100.00

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Latham, T.	100	1000
1-yr., No. 1	\$10.00	\$80.00
Durham, fall bearing, T.	8.00	65.00
1-yr., No. 1	10.00	80.00
Indian Summer, fall bearing, T.	8.00	65.00
1-yr., No. 1	10.50	85.00
	8.50	70.00

Red Rhubarb

Canada Red, No. 1 Division	10	100
McDonald, No. 1 Division	\$3.50	\$30.00
	3.50	30.00

Horseradish

Cuttings, 4 to 6 ins.	10	100
Whole Roots	\$1.00	\$4.50
	1.50	7.50

Gooseberries

Pixwell	10	100
3-yr., heavy	\$4.00	\$35.00
2-yr., No. 1	3.50	30.00
Houghton		
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2-yr., No. 1	3.50	30.00

Victoria Rhubarb

1 1/2 to 2 ins.	100	1000
1 to 1 1/2 ins.	\$12.50	\$100.00
3/4 to 1 in.	7.50	60.00
1/2 to 3/4 in.	6.00	45.00
	4.50	30.00

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Washington	100	1000
3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	5.00	20.00
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Ranococas, early; Rubel, midseason; Jersey, late

2-yr., 9 to 12 ins.	Each	10	100
3-yr., 12 to 18 ins.	\$0.40	\$3.50	\$32.50
4-yr., 18 to 24 ins., fruit buds	.55	5.00	47.50
5-yr., 24 to 36 ins., fruit buds	.75	7.00	67.50
	1.00	9.00	87.50

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4 to 5 ft., whips	5.00	45.00
4 to 5 ft., 2-yr., br.	9.00	75.00
5 to 6 ft., 2-yr., br.	10.00	90.00

SILVER MAPLES

5 to 6 ft., T., br.	5.00	40.00
6 to 8 ft., T., br.	7.50	60.00
8 to 10 ft., T., br.	9.00	75.00
1 1/4 to 1 1/2-in. cal.	10.00	90.00
1 1/2 to 2-in. cal.	15.00	125.00
2 to 2 1/2-in. cal.	25.00

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2 to 3 ft., C.	1.00	7.50
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	Per 10	Per 100
2 to 3 ft., C.	\$0.60	\$ 4.00
3 to 4 ft., C.	.75	6.00
4 to 6 ft., C.	1.00	9.00
5 to 6 ft., T., br.	2.50	20.00
6 to 8 ft., T., br.	4.00	30.00
8 to 10 ft., T., br.	6.00	45.00

**HALL'S
JAPANESE HONEYSUCKLE**

2-yr., T., our special conservation grade, \$45.00 per 1000. Well-rooted liners, \$10.00 per 1000.

Visit our nursery. We have 30 acres of quality nursery stock to show you.

LOWELL H. MCGEE NURSERIESState Hwy. No. 56, Beersheba Rd.
McMinnville, Tenn.
Office Phone: 3351—
Night: MO 8-8481**CHINESE HOLLY**
(*Ilex cornuta burfordii*)

Sheared Specimens

Ready to Dig

18 ins. to 6 ft.

Write for Prices or Come to

See Them

also

*Ilex crenata rotundifolia**Ilex crenata convexa**Ilex crenata microphylla***SOUTHSIDE NURSERIES, INC.**

Rt. 15, Box 471

Richmond, Va.

Telephone: BElmont 2-0156

tled weather, meaning June in the north.

Galium Verum

I recently read a long list of plants, running all the way, alphabetically speaking, from the common yarrow, *Achillea millefolium*, to *Veronica repens*, recommended by the experts as lawn grass substitutes. It was quite an array, numbering over 15 kinds, some of them, such as *Pachysandra terminalis*, being quite useless in areas where foot travel is expected. But I failed to see my old friend, the yellow bedstraw, *Galium verum*. I learned of the value of *G. verum* as a lawn plant only by accident, when, because of slipshod gardening practices, this plant self-sowed into a garden path.

It will look rather ragged during long, hot, dry periods, but it is a pleasing, deep green mat of ferny leaves during the rest of the year, meaning that this plant would make a lovely lawn in partly shaded places.

G. verum is a European plant, much loved by old-time herbalists and favored by housewives for its domestic virtues of yielding a good dye and for curdling milk. Gerard remarks that much of the famous Cheshire cheese of his time was made with its use. Many of the old books tell of the roots being used to produce a red dye, which was said to equal or exceed that made from madder; until the advent of synthetic dyes, the natives of the Hebrides used it to dye their woolen stuffs red; in Ireland, the stems, leaves and flowers, boiled with alum, were used to produce a yellow dye. And finally, it was held in high repute in the treatment of epilepsy by the herbalists of continental Europe, especially of France.

In Michigan in my best soil, it grows about two feet tall, although it may be kept to two inches with the lawn mower, with lovely, dark green, ferny-looking leaves and panicles of yellow, fragrant flowers during much of July and August. Although never a spectacular plant, it could be made attractive to some customers in some of its roles, I am sure.

NEW JERSEY MEETING

[Continued from page 11]

tors will not be carrying. During this time, the display emphasis is on summer furniture. This material is set up immediately after the Christmas displays are removed.

Sales Training Given

Sales training for the employees is also emphasized early in the year. Short sessions are held to discuss

**TAXUS
CAPITATA****EXCELLENT QUALITY****PRICES
AT OUR NURSERY**

	Each	Each
	10 to 40	50 and up
2 to 2 1/2 ft. . . .	\$5.50	\$5.25
2 1/2 to 3 ft. . . .	6.50	6.25

Quality Plants Since 1841

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Nurseries
GEORGETOWN RD.
ON U.S. 25 NORTH
LEXINGTON, KY.
AZALEAS
CONIFERS and
BROAD-LEAVED
EVERGREENSFinished Stock and
Potted Liners

Write for price list.

Send us your want list.

Fritschler's
NURSERY
4425 W. Lawn Dr.
Nashville 9, Tenn.

specific problems of the store, new products and salesmanship. This training period tends to key up the sales force for the approaching peak season.

The summer period, according to Mr. Fisher, is a good time to overhaul displays, clean the building and generally "spruce up" the sales area. This is the time of year when one can spend more time with the customers, learn their names and provide some personal services. Packaging and selling of insecticides and weed killers under the nursery's own brand name were strongly advocated. These should be stocked in addition to one or two widely advertised brands. Good-quality geraniums, annuals and pot plants are also salable items during this time.

Beginning August 1, chrysanthemums are promoted and sold in containers. Container-grown stock of all sorts helps increase summer sales. Sales contests among the employees can be held, and small prizes given. Summer furniture is a profitable item if it is approached properly. One must compete in quality, style and general exclusiveness, rather than in price. Flower arrangements are good stimuli for summer interest. The summer season at Burwell Nurseries is concluded with a clearance sale the last week of July.

The November-December period is dominated by the Christmas season. Mr. Fisher finds that almost one fourth of the business during this period is in Christmas items. The New York trade shows open new avenues in the gift and accessory lines. Quality Christmas trees are sold regardless of the competition, most of the sales being made by telephone. The average price of the trees sold this past year was \$14, and only about a dozen trees were left. The selection included balsam, white pine, red pine, Scotch pine, hollies and eucalyptus.

Greens are sold on a weight basis. Atmosphere is provided by appropriate music piped into the entire sales area. Mr. Fisher concluded his talk with slides of his sales area during the Christmas season and answered a few questions from the floor.

Panel on Guarantees

The second part of the morning program was a panel discussion on the topic "Should the N. J. A. N. Establish Minimum Guarantee Standards?" George Runge, Delaware Valley Nursery, Elizabeth, was the moderator. After providing a short introduction of the subject, Mr. Runge asked for comments by

PLANTS FOR SPRING

Abelia grandiflora
Buxus harlandi
Buxus japonica
Cherry Laurel
Euonymus pulchellus
Ilex cornuta burfordi
Ilex cornuta femina
Ilex crenata bullata
Ilex crenata rotundifolia
Ilex East Palatka
Ilex opaca fosteri
Ilex opaca Hume
Ilex vomitoria (Yaupon)
Magnolia grandiflora
Nandina
Pyracantha lalandi
Pyracantha formosana

Live Oak Trees
Chinese Elm
Cedrus deodara
Pin Oak
Deciduous Shrubs
Almond, Pink Double
Crape Myrtle, Wm. Toovey
Forsythia Lynwood Gold
Forsythia Spring Glory
Spiraea prunifolia
Spiraea vanhouttei
Weigela, Red
White Quince
Red Quince
Berberis, Green
Berberis, Red

CONTAINER PLANTS

Magnolia grandiflora
Ilex cornuta burfordi
Ligustrum lucidum compactum
Mahonia bealei
Nandina

Pyracantha formosana
lalandi
yunnanensis

Write for Price List

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Dundee, Miss.

Phone: 572 R4, Tunica, Miss.

ALDRIDGE NURSERY

VON ORMY, TEXAS

Wholesale Nursery Stock

Complete line of container and field-grown ornamentals

• Better Quality

• Better Value




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Shades — Liners — Fruits

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FRUIT TREES
STANDARD and DWARF
Write for wholesale list.
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Concord Grape Roots
Red Raspberry
Flowering Shrubs
Boston Ivy
Currants
IVAN R. CONGDON NURSERY
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AZALEAS
Broad-leaved Evergreens and a general line of quality ornamentals.
THE TANKARD NURSERIES
EXMORE, VA.

VICARY PRIVET
Lovely golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rose bed borders. Should have full sun.
Per 10 Per 100 Per 1000
Liners in 2-in. pots ... \$2.00 \$18.00 \$150.00
Rooted cuttings, 100, \$10.00; 1000, \$80.00.
BEARDSLEE NURSERY PERRY, G.

SPECIMEN TREES

**300 Acres
TREES AND
BROAD-LEAVED
EVERGREENS**

Overnight Delivery
Maryland, New Jersey,
Delaware, Pennsylvania,
New York

Quercus nigra } 2 1/2 to
Quercus phellos } 3-in. cal.

Quercus palustris
Up to 5-in. cal.

10,000 *Ligustrum lucidum*,
15 ins. to 3 1/2 ft.

10,000 *Ilex burfordi*
18 ins. to 4 1/2 ft.

WINN NURSERY, INC.

6926 Granby St., Norfolk, Va.

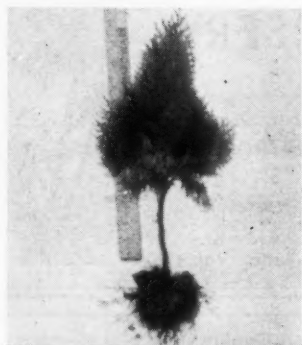
Phone: MA 7-3608

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We Solicit Your Inquiries.

Member of A. A. N.

Mention The American Nurseryman when you write.



BERCKMANS GOLDEN ARBORVITAE

10 to 12 ins. XX, 15c each

Twice transplanted, grown in close rows and full sun. Do not confuse with bed-grown liners.

Also rooted cuttings from greenhouse, 8c each.

Complete line of B&B conifers and broad-leaved evergreens at reasonable prices.

Send for our price list.

All prices net F.O.B. Baxter.

JOHNSON'S NURSERY

Phone: UL 8-5503 Baxter, Tenn.

8 miles west of Cookeville — 45 miles north of McMinnville.

Lester (Buzz) Field on guarantee responsibilities of the wholesale nursery.

Mr. Field felt that the guarantee of the wholesale nursery should be positive but limited. The stock must be guaranteed to be alive and in good shape when shipped, true to name and sold in accordance with A. A. N. specifications. Beyond this point, he noted that the responsibility must be on the retailer, who has the direct contact with the customer.

Pat Howe, Howe Nurseries, Pennington, advocated a generous and full guarantee. He read the guarantee used in Howe Nurseries' retail garden markets. Plants are replaced at no charge, except for planting fees, within the first growing season, provided that the account is paid within 30 days of the purchase and that proper and reasonable care has been provided. He pointed out that the cost of this guarantee (less than 1 per cent of sales) is a low price to pay for satisfied customers.

The landscape nurserymen were represented by James Corradi, A. Corradi and Son, Inc., Summit. Mr. Corradi favored a guarantee backed by the association as a good means of achieving customer confidence. The guarantee drafted by the North Jersey Metropolitan Nurserymen's Association calls for plants to be replaced at one-half retail price plus planting charges, provided the plant was planted by the nurseryman making the sale.

He suggested that N. J. A. N. standards should start at this level. Such an endorsed guarantee would show unity of purpose and protect the retailer while not harming other branches of the industry.

Mr. Runge then entertained questions from the floor. The ensuing discussion brought out many worthwhile points. The general objective in a guarantee is a satisfied customer. If there is a complete guarantee, the responsibility is taken off the customer, and he may become careless, knowing that he has nothing to lose.

It was generally felt that a partial guarantee is most effective. One may use his own discretion in individual cases, sometimes being more generous than promised in the guarantee. The panel felt that N. J. A. N. standards would be worthwhile, and referred the topic to the executive committee. Following the morning program, buffet luncheon was served.

Container Growing

As the meeting reconvened, President Flemer announced the first topic of the afternoon: "Will All Plants be Container Grown by

BROAD-LEAVED EVERGREENS

Choice landscape material
at attractive prices.

Buxus sempervirens, 12 to 15 ins. to 2 to 2 1/2 ft.

Elaeagnus fruitlandi, 1 1/2 to 2 ft. to 4 to 5 ft.

Euonymus kiautschovicus, 1 1/2 to 2 ft. to 4 to 5 ft.

Ilex burfordi, 1 1/2 to 2 ft. to 4 1/2 to 5 ft.

Ilex cassine, 3 to 4 ft. to 5 to 6 ft.

Ilex convexa (bullata), 12 to 15 ins. to 2 1/2 to 3 ft.

Ilex rotundifolia, 15 to 18 ins. to 3 to 3 1/2 ft.

Ilex opaca howardi, 2 to 3 ft. to 4 to 5 ft.

Ilex vomitoria, 3 to 4 ft.

Ligustrum japonicum, 2 to 3 ft. to 4 to 5 ft.

Ligustrum lucidum, 1 1/2 to 2 ft. to 5 to 6 ft.

Ligustrum lucidum repandens, 1 1/2 to 2 ft. to 4 1/2 to 5 ft.

Osmanthus fortunei, 1 1/2 to 2 ft. to 3 to 4 ft.

Your Want Lists Solicited.

HOWARD-HICKORY COMPANY

Box 491

HICKORY, N. C.

Telephone: DA 4-2539

PINK DOGWOOD

Cornus florida rubra

	Each	Per 100
12 to 18 ins., 1-yr.	\$0.50	\$0.45
18 to 24 ins., 1-yr. ....	.60	.55
24 to 30 ins., 1-yr. ....	.85	.75
30 to 36 ins., 1-yr.	1.00	.90
4 to 5 ft., 2-yr.	2.50	2.25
5 to 6 ft., 2-yr.	3.50	2.00

White-Flowering Dogwood

Cornus florida (2-yr.)

3 to 4 ft., br. ....	.90	.60
2 to 3 ft., br. ....	.50	.40
18 to 24 ins., br. ....	.30	.20
12 to 18 ins., br. ....	.15	.10

Flowering Crab Apple

Eleyi and Hops

4 to 5 ft., 2-yr., br. ....	.60	.50
5 to 6 ft., 2-yr., br. ....	.75	.65

(for Almey, add 10c a tree.)

Flowering Peach

(Red, White, Pink and Peppermint)

2 to 3 ft. ....	.30	.25
3 to 4 ft. ....	.35	.30
7/16 to 9/16-in. cal. ....	.40	.35

Write for special prices on quantity lots. 500 at 1000 rate.

CHOCOLA NURSERY Winchester, Tenn.

EVERGREENS

100 acres of choice evergreens ready for sale.

Write for price list.

GRANT'S NURSERY

Rt. 2

Caledonia, Miss.

.... GOOD ROOTS GOOD TOPS

*There's still time to order
good liners from GULF STREAM*

PROPERLY GROWN • PROPERLY GRADED • PROPERLY PACKED

	100	1000
<i>Berberis Crimson Pygmy</i> , 2 1/4-in. pots	\$25.00	\$225.00
<i>Euonymus alatus compactus</i> , 2 1/4-in. pots	15.00	125.00
<i>Viburnum rhytidophyllum</i> , 2 1/4-in. pots	21.50	180.00
<i>Cotoneaster acutifolia</i> , 1-yr., S., 18 to 24 ins.	8.00	75.00
<i>Cotoneaster acutifolia</i> , 2-yr., T., 18 to 24 ins.	10.00	90.00
<i>Cotoneaster divaricata</i> , 1-yr., S., 15 to 18 ins.	9.00	80.00
<i>Cotoneaster divaricata</i> , 2-yr., T., 18 to 24 ins.	12.00	100.00
<i>Rhodotypos kerrioides</i> , 2-yr., 15 to 18 ins.	8.00	75.00
<i>Viburnum carlesi</i> , 1-yr., S., 8 to 10 ins.	18.00	160.00
<i>Viburnum carlesi</i> , 1-yr., S., 10 to 12 ins.	20.00	180.00
<i>Viburnum dentatum</i> , 1-yr., S., 12 to 15 ins.	9.00	80.00
<i>Viburnum dentatum</i> , 2-yr., T., 12 to 15 ins.	20.00	180.00
<i>Viburnum setigerum</i> , 1-yr., S., 10 to 12 ins.	15.00	125.00
<i>Viburnum setigerum</i> , 2-yr., T., 18 to 24 ins.	20.00	180.00
<i>Viburnum sieboldi</i> , 1-yr., S., 8 to 10 ins.	15.00	125.00

Write for complete Price List

JACQUES L. LEGENDRE
PRESIDENT

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SECRETARY

ONANCOCK
Phone SUNSET 7-1421

GULF STREAM NURSERY INC.

WACHAPREAGUE, VIRGINIA

1970? If So, How?" The scheduled speaker, Jack Hill, D. Hill Nursery Co., Dundee, Ill., was unable to appear, because of illness, and Klass deWilde took over the presentation.

Mr. deWilde began by stating that, though he does not feel that all plants will be container grown by 1970, he believes that container stock has a great future if the plants are handled well and if good plants are grown.

It was noted that to date there has been little effort to establish size standards for container plants. The designation "1-year container" or "1-gallon container" tells nothing about the plant. The object is not to grow liners in containers but rather to grow a good, well-branched, well-formed, small specimen plant. Perkins-deWilde Nurseries now have more than 500,000 plants growing in containers, most of which are the 2-gallon size.

New Jersey Operation

Mr. deWilde then outlined the methods used in his container operation. All plants are planted by machine. Best results were definitely obtained when well-rooted cuttings from 2 1/4-inch pots were used. These produced the most growth and best plants in a relatively short period of

ABELIA GRANDIFLORA

20 to 26 ins.

Extra-bushy plants, three years in the field and perfect for any job. They are not "leggy" or "heady" but thick from the ground up. A sample will be sent for inspection.

BIG RIVER NURSERY

Dundee, Miss.

Phone: 572 R4, Tunica, Miss.

LINING-OUT STOCK

Specimen Evergreens

MORAINÉ LOCUST

1 and 2-Yr. Tops

Heavy Shrubs

WILT-PRUF

SNEED NURSERY CO.

P. O. Box 798

Oklahoma City 1, Okla.



Beautiful shade, productive too! Prolific varieties. Sizes 1 1/2 to 12 feet. In attractive packages or bare roots. Get stock list and prices.

AARS winners and 130 other popular varieties. In attractive, colorful packages or bare root.

PECAN TREES



ARP Nursery Co.

Box 3338-J, Tyler, Texas

FLORIDA - GROWN CITRUS

4-in. and 6-in. plastic pots.

Write for prices.

GOOCHLAND NURSERIES, INC.

Pembroke, Fla.

SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

E. C. MORAN, Stanford, Mont.

BARGAINS for SPRING, 1960

HEAVY, 2-yr. APPLE

11/16-in. cal., 5 to 6 ft., well-br.
\$5.50 per 10; \$50.00 per 100.

Red Delicious
Yellow Delicious
McIntosh
Red Rome Beauty
Red Jonathan

Yellow Transparent
Early Harvest
Grimes Golden
Horse
Winesap
Mammoth Black Twig

Combination Apple

5-N-1, 4 to 5 ft., \$1.50 each
4-N-1, 4 to 5 ft., \$1.00 each
3-N-1, 4 to 5 ft., \$0.75 each

FLOWERING CRAB APPLE, 2-yr.

Hopa, Eleyl, Almey, Cowichan, Red Silver, Aldenham, Scheideckeri, Dolgo
5 to 6 ft., well-br., \$1.00 each
4 to 5 ft., well-br., \$0.75 each
3 to 4 ft., whips and light br., 60c each



Commercial Nursery Co.

Decherd, Tennessee

Wholesale Nurserymen Since 1900



PYRACANTHA LALANDI

Root-Pruned Field Plants

Extra bushy and heavy foliage.

3 to 4½ ft., B&B, \$1.50; 18 to 24 ins., B&B, 75c

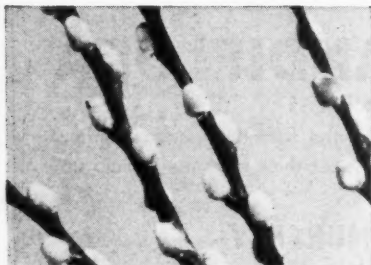
MAGNOLIA GRANDIFLORA

2½-in. pots	\$0.09	2 to 3 ft., B&B.....	\$1.25
Quart cans .....	.14	3 to 4 ft., B&B.....	2.00
Gallon cans .....	.60	4 to 5 ft., B&B.....	3.00

BIG RIVER NURSERY

Dundee, Miss.

Phone: 572R4, Tunica, Miss.



PINK FRENCH PUSSY WILLOW (Salix Discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany red with attractive large silvery-pink catkins when mature.

Approximately 15,000 to 20,000 available.

Root and top pruned field liners, \$12.00 per 100; \$100.00 per 1000.

8-in. hardwood cuttings, \$20.00 per 1000

BEARDSLEE NURSERY PERRY, O.

Wholesale American and
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BULBS!

VANDBERG BULB CO.

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WE SPECIALIZE IN FINE Azaleas and Camellias

Write for Catalog

FLOWERWOOD NURSERY

GREGORY L. SMITH, Owner
Rt. 1, Box 130 MOBILE, ALA.

ROSE BUSHES

Patented and Standard in

Good Assortment

Bare-Root—Packaged

Write for price list.

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1960 GARDEN MUMS

Send for
New Color Brochure

Pictures help you sell!

CUNNINGHAM GARDENS, INC.

Waldron, Ind.

QUALITY STOCK GROWN BY US

Cherokee Chief Red-Flowering Dogwood
(Plant Patent No. 1710)

Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens.

Write for wholesale list.

HAWKERSMITH & SONS NURSERY
Tullahoma, Tenn.

time. Fertilizer is applied every two weeks through the watering system. For overwintering, the container plants are moved close together and mulched with salt hay.

Mr. deWilde then asked for questions from the group. His son, Robert, who is in charge of container production at the nursery, joined in answering the many questions. The potting mix now being used includes sand, soil, peat and vermiculite. The mixture must be well aerated, yet have a good capacity for holding water. The can must be filled almost to the top if proper growth is to be attained. It was once thought that yews could not be grown in cans; yet container-grown yews at the Perkins-deWilde Nurseries attain as much growth as field-grown plants.

There are several distinct advantages to growing plants in containers. First, it lengthens the planting season for many plants that are not easily dug in off seasons. Second, it permits the sale of fruited plants on which the berries could not be maintained if they were dug B&B.

Third, it reduces loss from mechanical damage often suffered by low-growing species. Robert deWilde pointed out that poor practices have given container stock a poor reputation in certain areas, but said that their stock is being received with satisfaction. Although there are still many problems, it was felt that the many advantages would result in considerable expansion in container production.

Shows Unusual Landscapes

The final talk of the day was given by Owen D. Schmidt, F. D. Moore & Sons, Inc., Narberth, Pa. Illustrating his talk on "Some Unusual Landscaping" with color slides, he placed particular emphasis on the use of unusual plants, including espaliers and topiary work. Before and after pictures exemplified what could be done with some difficult situations.

The members then heard a report from the nominating committee and recessed. The evening's activity included a reception and cocktail party given by the wholesale nurserymen, a fine banquet, entertainment by a barbershop quartet and dancing.

The meeting convened the next morning with an address by the retiring president, William Flemer III. Mr. Flemer acknowledged the work of Peter Vermeulen, who was program chairman for the meeting, and for the work that all of the committees had done throughout the year. He advocated that a plan be worked out whereby more meetings of the

LINERS FROM OPEN BEDS

All our cuttings are rooted in soil in outside beds under mist—then hardened off and thoroughly established in the soil where they make a mature, hard root system and often some top growth. Many of these rooted cuttings will have to go into 3-in. or larger pots. Better not plan on putting any except the smallest in 2½-in. pots because they just won't fit. Of course, some of the *Ilex crenata* varieties and some of the others can go in pots that small. Some of our friends put the larger rooted cuttings right out in the field and usually have good luck with them, if planted at the right time; that seems a little radical to us and we don't recommend it. However, any plant we list as a bed-grown liner is ready for the field. BG—bed-grown RC—rooted cutting C—cuttings S—seedling

Mo., Yr.—date rooted
Arborvitae—See Thuja.
Berberis Crimson Pigmy—Light BG, liners, 18 mo. old, branched to fairly bushy, 5 to 7 ins. 18c; heavy, BG, liners, 6 to 9 ins., bushy, 25c.
Berberis julianae—The hardest evergreen barberry—Big rooted cuttings, Aug. 59, 9c.
Berberis julianae nana—Compact growth, darker green leaf, may be a little harder, RC, Aug. 59, 10c.
Berberis julianae pyramidalis—An upright, pyramidal form of julianae barberry, evergreen, smaller leaf, very erect, RC, heavy, Aug. 58, 20c.
Berberis montana—RC, Aug. 59, 7c.
Biota—See Thuja.
Buxus sempervirens (Boxwood)—An excellent, bushy strain—C, rooted Sept. 58 and kept cut back to 6 or 7 ins., beginning to bush out well, 10c.

FLOWERING QUINCE

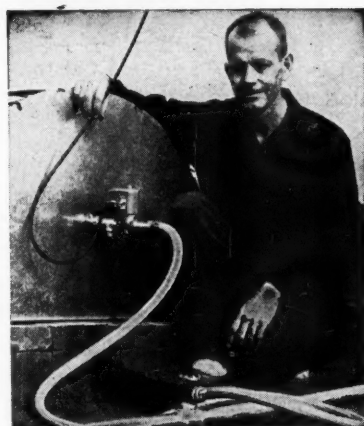
Nivalls—Pure white, the best of the white-flowering quinces. A vigorous, upright grower—RC, small, need to be potted or bedded, 10c; BG, liners, 6 to 12 ins., 18c; 12 to 18 ins., 24c.
Texas Scarlet—Red, spreading grower wider than high. An excellent foundation plant, never gets too tall. Showier than an azalea. The best for canning because of the profuse red flowers on a compact, low plant. It is the prettiest quince and maybe the prettiest plant we ever saw in a can. RC, small, pot or bed them, 10c; BG, liners, 6 to 12 ins. or more, 20c.

Toyonishiki—From Japan through the Morton Arboretum. Pure white, pure pink and pink and white flowers at random on the same branch. Some plants throw single branches of pure red flowers. A most remarkable effect. A clean, upright, vigorous grower. BG, liners, liner grading but some are fairly well branched, 12 to 18 ins., 65c; 18 to 24 ins., 95c. Will make suitable plants the first year in the field and they will certainly sell the first time your customers see them bloom.

Simoni—Deep, deep red. A world-famous, old variety. The deepest red of all, no other quince comes close. A restrained grower of rather exotic branching habit. Will please the most demanding plant lover. Field-grown, standard A. N. grading, 12 to 18 ins., \$1.25; 18 to 24 ins., \$2.00; a few RC, July 59, 35c.

Chamaecyparis obtusa nana (Dwarf Hinoki Cypress)—RC, 2-yr., 2 to 4 ins., 15c; BG, liners, 4 to 6 ins., 25c.
Cherry Laurel—See Prunus.
Cydonia—See Chaenomeles.
Elaeagnus ebbingei—New, from Dutch plants, the best we have seen, more upright and attractive than frutlandi—RC, June 59, 20c.
Euonymus alatus compactus—RC, June 59, 8c.
Ginkgo biloba (Chinese Maidenhair tree)—1-yr., S., 4 to 6 ins., 6c; \$55.00 per 1000. 1-yr., S., 6 to 9 ins., 10c; \$85.00 per 1000.
Ilex cornuta femina—RC, heavy, 6 to 12 leaves, 8c.
Ilex cornuta burfordi—RC, strong terminal cuttings, 4 or 5 ins. long, have about 6 to 12 leaves each, heavily rooted, 8c; C, rooted Aug. 58, kept cut back to 8 to 12 ins., beginning to branch, 15c.

Foremost in intermittent mist propagation. Originator of the Electronic Leaf Control.



Ilex crenata convexa (bullata)—RC, Aug. 59, 7c; C, rooted Aug. 58, kept cut back to 8 to 7 ins., beginning to branch beautifully, 10c.

Ilex crenata Glass Upright—A pyramidal form, very erect, C, rooted Sept. 58, kept cut back to 4 to 8 ins., nearly all well branched, 15c.

Ilex crenata hetzel—Large RC, Aug. 59, 7c.

Ilex crenata Maxwell—A Bennett hybrid, looks like convexa, but a much better grower, rather small RC, Aug. 59, 10c.

Ilex crenata rotundifolia—Large, RC, Aug. 59, 7c; C, rooted Aug. 58, kept cut back to 7 or 8 ins., beginning to branch well, 10c.

Ilex Foster's Hybrid No. 2—Narrow, spiny leaves, red berries, fruits heavily, rapid grower, quite hardy, C, rooted Sept. 58, kept cut back to 8 or 9 ins., beginning to branch beautifully, 15c.

Ilex opaca (American Holly)—Northern types, no southern hybrids, guaranteed female and guaranteed male from cuttings—BG, liners, 4 to 6 ins., 17½c; for canning in gallon cans, mostly single stem, some lightly branched, BG, liners, female only, 15 to 30 ins., 40c. *Ilex opaca* shipped only on March 1, 1960 (because that is the very best time to move American Holly).

Juniperus—All the following are from short, greenhouse-type cuttings. They were rooted under mist in beds of soil in the spring of 1959. They have been cut back several times to make nice, compact, heavy, rooted cuttings about 6 ins. high and beginning to bush out. None are leggy. They are still small enough to pot. If you plan to sell potted liners, many of these will be salable just as soon as they establish their roots in the pots.

Juniperus Andorra—RC, 9c; \$35.00 per 1000.

Juniperus hetzel—RC, 10c; \$35.00 per 1000.

Juniperus pfitzeriana—RC, 10c; \$35.00 per 1000.

Juniperus pfitzeriana Armstrong—Compact, upright, vase-shaped, RC, 11c; \$165.00 per 1000.

Juniperus pfitzeriana Nelson's Compact—A beautiful spreading Juniper, much lower-growing than regular Pfitzer, but taller than Andorra. A bright bluish-green all summer, bright green all winter, RC, \$10c; \$35.00 per 1000.

Juniperus pfitzeriana Nick's Compact—RC, 10c; \$35.00 per 1000.

Magnolia grandiflora—Seedlings from well-spaced outdoor beds, 4 to 6 ins., 6c; 6 to 12 ins., 10c.

Mahonia bealei—1-yr., S., from well-spaced outdoor beds, just right to pot, 6c; \$50.00 per 1000.

Prunus caroliniana (Cherry Laurel)—2-yr., S., kept cut back to 10 to 12 ins., pretty well-branched but not filled out round, 10c.
Prunus laurocerasus schipkaensis (Cherry Laurel)—The best grower and, we think, the prettiest, RC, July 59, about 5 to 8 ins., many leaves (up to 8 or 10), heavy root system, some beginning to branch, 10c.

Prunus laurocerasus zabeliana (Cherry Laurel)—Usually considered the hardest, RC, July 59, strong cuttings, many leaves, good root system, 12c; C, rooted 1958, kept cut back to about 8 ins., beginning to branch, 20c.

Thuja orientalis aurea nana (Berkmans Golden Arborvitae)—Cuttings rooted spring 59, kept cut back to about 6 or 7 ins. to make them bush out, but still small enough for a 2½ or 3-in. pot. Several nurserymen have put these right into the field, 10c. Cuttings rooted spring, 1958, kept cut back to 7 or 8 ins., not rounded out yet, but heavy, of good caliper and with a fine root system. Probably too large to pot, but would be nice to can, or fine for the field, 15c.

Viburnum—All these *Viburnums* are rooted from soft tips in spring or early summer. They grow some during the summer and fall which makes the rooted cuttings from 4 to 6 ins. up to 12 or more inches tall, depending on variety. It is hardly fair to call them rooted cuttings since some of them are more like light, young, bed-grown liners. However, they have not been transplanted, are not branched and most of them are still small enough to pot.

Viburnum cerasioides—More shapely and attractive than burkwoodii, RC, June 59, 15c.

Viburnum juddii—Better than carlesii. A more compact plant with more attractive leaves. Not subject to leaf spot. Flowers really pink, RC, June 59, 15c.

Viburnum macrocephalum sterile (Chinese Snowball)—This is the one we love. Dazzling white snowballs, often 8 to 9 ins. in diameter, as big as a man's head, a good grower, in polyethylene plant bands, same amount of soil as in 3-in. pots. On own roots, since it does not seem to grow well if grafted, 65c.

Viburnum rhytidophyllum (Leather-Leaved Viburnum)—RC, July 59, 12c.

Viburnum rhytidophyllum—A hybrid between *V. rhytidophyllum* and *V. lantana*, similar to *rhytidophyllum*, but is harder, RC, July 59, 15c.

Viburnum tomentosum, RC, July 59, 11c.

Viburnum tomentosum plicatum grandiflorum—Snowballs considerably larger and whiter than regular Japanese snowball, RC, July 59, 20c.

HEAVY LINERS—We have many liners in polyethylene plant bands with the same amount of soil as a 3-in. pot. Some are American Holly, Blue Pfitzer Juniper (the best strain—not hetzel), Armstrong's Juniper, *Ilex crenata* Glass Upright, Berkman's Golden Arborvitae and others.

IN PLANTAINER CANS—We have many well-grown plants such as: male and female American Holly, guaranteed sex from cuttings; Junipers—pfitzeriana and Andorra, Berkman's Golden Arborvitae, Pyracantha lalandi and graber (without berries), Flowering Quince, both red and white, Magnolia grandiflora, Mahonia bealei with 2 or 3 plants to the can as it should be, Canadian Hemlock and others.

FREE PACKING, liners in sphagnum moss and polyethylene plastic. Cash with order or 25% deposit, balance at time of shipment.

HARVEY TEMPLETON, JR.

phytotektor.
U.S. HWY. 64-61A
WINCHESTER - TENNESSEE

association would be held in the course of a year.

The suggestion was made that an award, similar to the A. A. N. "Plant America" awards, be presented each year for an outstanding home landscape in New Jersey. The third suggestion offered was that the association should look into the purchase of chemical products to be sold under

the N. J. A. N. brand name by members.

Committee Reports

The legislative committee reported on the efforts of the state to tax plants growing in the field. The legislative committee (and all of the members) hold that plants have no value until they are sold. They

should be treated like any other perishable crop. A motion was passed giving the legislative committee the power to seek state legislative change to eliminate this industry threat.

The better planting and standards committee reported its activities and showed a group of slides taken on the summer landscape tour.

A feature addition to the program

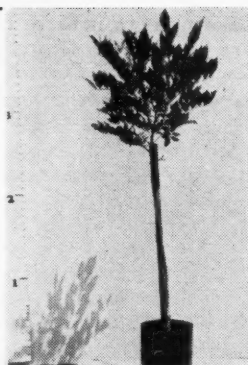
FANCY LITTLE WISTARIA TREES WILL BLOOM THIS SPRING

CHINESE

Purple, large fragrant flowers. Order them early so they will bloom in your yard.

1-gal. can grown, 30 to 36 ins.,
\$1.00 at Scottsville.

10 per crate. Shipping weight,
80 lbs.



VERHALEN NURSERY Company

SCOTTSSVILLE • 12140 HARRY HINES BLVD.
TEXAS • DALLAS, TEXAS

CHERRY LAUREL

2 to 3 ft.....	Each
3 to 4 ft.....	\$1.00
4 to 5 ft.....	1.25
	1.75

If anyone needs a really good Cherry Laurel for his trade, we do not believe that better plants can be found. They have been root-pruned and sheared, making them very thick, bushy shrubs. We will be glad to send a sample to interested parties.

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WHITE-FLOWERING REDBUD

(Cercis canadensis alba)

One of America's most beautiful and rarest trees. As hardy and adaptable as the native pink variety. All sizes will bloom this spring.

18 to 24 ins.....	Each
2 to 3 ft.....	\$1.25
3 to 4 ft.....	1.75
4 to 5 ft.....	2.00
	2.25

Minimum order \$10.00.

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Oklahoma City 10, Okla.

CAPITOL GARDEN FARMS

Growers of Quality Nursery Stock

Junipers our specialty.

January Specials

Juniper chinensis pfitzeriana

12 to 15 ins.	\$1.50
15 to 18 ins.	1.75
18 to 24 ins.	2.10
24 to 30 ins.	2.50
30 to 36 ins.	3.00

Write for catalog for other materials.

P. O. Box 7157 or 4200 N. May
Oklahoma City, Okla.

NATIVE EVERGREENS

Rhododendron maximum,
Kalmia latifolia, Ilex opaca,
Tsuga canadensis

	Per 100	Per 1000
3 to 6 ins., S.	\$3.00	\$30.00
6 to 9 ins., S.	4.00	30.00
9 to 12 ins., S.	6.00	50.00
12 to 18 ins., S.	8.00	70.00

CUMBERLAND PLATEAU NURSERY

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Specialists in PERENNIALS

SEEDS—PLANTS—BULBS

Perhaps America's largest list of unusual plant materials.

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PEARCE SEED COMPANY
Dept. N MOORESTOWN, N. J.

CANNED PLANTS

Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

was the showing of a film taken by William P. Howe Jr., Howe Nurseries, on his recent African safari. His catch included a lion and a 147-pound Nile perch, a record for that territory of Africa.

The morning program was concluded by the A.A.N. report from Washington, presented by F. Raymond Brush, administrative assistant. Mr. Brush reviewed the objectives of the association and the many services performed. He reminded the members that the A.A.N. could not directly interfere with affairs in any state but could serve in an advisory capacity.

Award Presentations

After lunch, three awards were made. The first was a citation from the N. J. A. N. to Donald Webb, for all his help and interest during his many years with the division of plant industry of the New Jersey state department of agriculture.

The second award was a "Plant America" award for outstanding achievement in industrial landscape planting. Sidney B. Hutton, Conard-Pyle Co., West Grove, Pa., director of region I, A. A. N., presented the award to Raymond L. Steen, vice-president, Broad Street national bank, Trenton. A third award, also a "Plant America" award, was presented to Pat Howe, who represented Howe Nurseries, Pennington, which planted the award-winning bank landscape.

The afternoon program featured a panel discussion moderated by James S. Wells, James S. Wells Nursery, Inc., Red Bank. The topic was "Plants Plus Promotion Equals Profits" and was designed to explore methods of putting new and better plants on the market.

Other members of the panel were: Lawrence F. Palmeter, Breck's Home & Garden Center, Millburn; William Flemer III; Sidney B. Hutton, and Robert Miner, Flower Grower magazine.

A carefully planned attack on the problem resulted in an extremely interesting and humorous presentation of ideas. It was noted that one of the most difficult problems in the industry is to predict future demands for a particular plant.

The nursery industry should create a demand for its products. It must determine how many plants to produce and how much it must spend to sell that quantity. A lengthy discussion of the pros and cons of the plant patent system resulted in general agreement with its function.

A major point of disagreement was

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AVAILABLE FOR IMMEDIATE SHIPMENT

ALTHAEA, all colors
 BARBERRY, Red-leaved
 BARBERRY, mentorensis
 CYDONIA JAPONICA RUBRA, upright
 FORSYTHIA, large sizes,
 Spectabilis and Lynwood Gold
 LILAC, rothomagensis
 PHILADELPHUS
 PRIVET

Amur River North and Regel

SPIRAEA, Anthony Waterer
 SPIRAEA japonica coccinea
 SPIRAEA froebeli
 GOLDEN NINEBARK
 WEIGELA Eva Rathke, red
 WEIGELA rosea, pink, large sizes only
 WEIGELA vaniceki, red, large sizes only
 WEEPING WILLOW, large sizes only
 REDBUD, large sizes only

ALSO MANY OTHER ITEMS AVAILABLE

Write for complete trade list.

QUOTATIONS GLADLY SUBMITTED ON LARGE QUANTITIES

MORNING STAR NURSERY, INC.

Rives, Tenn.

whether or not a small nursery could publicize and market a new plant. It was finally agreed that even a small nursery could promote a plant through the efforts of one or more of the large producers, who would also be interested in having a part in the marketing of a plant that would be profitable.

Suggest Testing Organization

It was proposed that some sort of testing agency be established on a limited regional basis to find plants worthy of patents and large scale promotions. This agency would inform the nursery industry of its selection far enough in advance to enable mass production of the plant prior to the public announcement of its attributes.

A most significant observation was the neglect of the numerous "old" plants, not capable of being patented, yet having many fine qualities and being worthy of wide use in regional landscapes.

It was concluded that industry members must cooperate closely in examining what is old, what is new and what is worthy of a well-planned, well-backed promotional scheme.

After the officers had been elected and installed, as reported earlier, the meeting adjourned for six days until January 28. The final day of

Invest in Top Quality

Dwarf Fruit Trees Espalier Trained Fruit Trees

For retail sales. Malling No. 11, VII and IX rootstock. Hardy, northern-grown 1-year and 2-year old trees, guaranteed free from insect pests and plant disease. Send today for wholesale prices.



HENRY LEUTHARDT ALL TREES GRAFTED
 Dept. A, Port Chester, N. Y.

PINK DOGWOOD LINERS

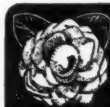
Silver Maple, Hall's Honeysuckle, Flowering Peach, Forsythia, Crab Apple, Fruit Trees, Poplar, Privet. Write for trade list.

FLOWER CITY NURSERIES

Rt. 3 McMinnville, Tenn.



Evergreens, B&B
 Write for price list.
Gilmore Plant & Bulb Co.
 Julian, N. C.



SEMME'S NURSERIES

AZALEAS - CAMELLIAS
 and other choice evergreens

Wholesale Catalog SEMMES, ALA.

TENNESSEE-GROWN STRAWBERRY PLANTS

Passed Double State Inspection

EARLY VARIETIES	Per 1000*
Blakemore	\$ 6.00
Empire	8.00
Dixieland	8.00
Dunlap	7.00
Premier	6.00
Missionary	4.00
Florida 90	5.00
Earlclawn	10.00

LATE VARIETIES

Robinson	8.00
Tennessee Beauty	8.00
Armstrong	8.00

*Prices quoted are for delivery by express collect.

All plants tied 26 to a bundle and labeled. All orders filled promptly, large or small. Fresh-dug plants or cold-storage plants. Write for prices on hundred quantities.

ROGERS' BERRY FARM

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CUMBERLAND VALLEY NURSERIES, INC.

Wholesale Growers of Dependable
 Fruit and Flowering Trees
 Write for latest price list.

313 N. Chancery St.
 McMinnville, Tenn.

EUONYMUS ALATUS COMPACTUS

Heavy, outdoor frame grown, rooted cuttings. These cuttings are heavily rooted. Try some and see how good they are.

Single lead approximately 6 ins., \$12.00 per 100, \$100.00 per 1000.

BEARDSLEE NURSERY
 Perry, O.

**MR. NURSERYMAN
DOES YOUR SUPPLIER
HELP YOU TO SELL?**

OZARK DOES!

**YES SIR, IT'S EZY
SELLIN' WITH OZARK'S
"LUCKY SEVEN"
SALES AIDS!**

... AND HERE'S WHY

- Free Distinctive Tags for Every Plant.
- Free Colored Plant Pictures.
- Free Waterproof Pictures for Outdoor Display.
- Free Display Suggestions.
- Free Promotional Sales Ideas.
- Free Advertising Mats.
- Free Display Banners.

**WRITE FOR OZARK'S
WHOLESALE
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Order from hundreds
of Ozark grown items.
Write today!

**OZARK NURSERIES CO.
TAHLEQUAH, OKLAHOMA**

Mention The American Nurseryman when you write.

**You'll Like
NAUGHER'S Quality**

GREEK JUNIPER

Each Each
Per 100 Per 1000

1-yr., 6 to 12 ins. . . 15c 12 1/2c

2-yr., 8 to 15 ins. . . 17 1/2c 15c

• **Field-Grown Liners**

• **Fully Dormant**

• **Freshly Dug**

• **Packing Free**

Now Shipping—Order Today

**Naugher
NURSERY**
Chase, Alabama

the winter meeting, held at Trenton, N. J., in conjunction with New Jersey farmers' week, is reported elsewhere in this issue.

KENTUCKY CONVENTION

[Continued from page 16]

to follow manufacturers' instructions carefully.

To round out the presentation from the department of horticulture, Dr. Schneider, department head, introduced Dr. Jan W. Abernathie, who was recently added to the staff to teach landscape architecture. Dr. Schneider suggested that a research committee be appointed, having the task of bringing the industry's problems to the university and helping with the over-all cooperative effort.

Dr. J. G. Rodriguez, who has devoted a portion of his research time to pests of ornamental plants, reviewed some results of the continuous study of the mimosa webworm. The use of systemics has shown some promise. The fact that the three broods of the pests per year overlap complicates the timing of sprays such as toxaphene.

Dr. Rodriguez reviewed the work he has started on the use of systemics as a possible control for wood-boring insects. This work is to be published at a later date.

Troubles with insects of pines have gained more attention in recent years. Dr. Rodriguez discussed the problems of pine-tube moth, pine-needle scale and white pine bark aphid. The use of 4 per cent dormant oil, which pines tolerate well, will control both needle scale and white pine bark aphid.

Cost Saving Technique Given

The theme of "Records and Selling" was approached from several angles. Carl Thomas, Newberg, Ind., had an interesting approach to the subject with the use of slides and blackboard sketches. He emphasized the use of stock from cans as a means of saving labor and other cost in landscape work. Properly selected can-grown plants are especially adapted for hedges and can be used to increase sales and profits. By the use of blackboard sketches he suggested a greater use of hedges as a part of landscape design.

The A. A. N. film, "Basic Technique for Home Landscaping," was shown and enjoyed. This feature was followed by an informal discussion by Carl Ray, who showed some unusual drawings done by Mrs. Ray. Mrs. Ray is an accomplished artist and has put her talent and training to excellent use in helping to pre-

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Grown in the Ozarks of Missouri**

Choice, well rooted, in bundles of 26, each packed in polyethylene, wrapped with attractive picture label and complete growing guide. Ideal for your retail trade.

Blakemore, Dunlap, Tennessee Beauty, Robinson, Aroma, 40-bundle crate, \$14.00.

Pocahontas, Dixieland, Armore, Surcrop, 40-bundle crate, \$15.00.

Streamliner, Everbearing, 40-bundle crate, \$16.00.

Bulk plants in bundles of 26, **Blakemore, Dunlap, Robinson, Tennessee Beauty, Aroma, per 1000 plants, \$7.50.**

Pocahontas, Dixieland, Armore, Surcrop, 1000 plants, \$9.00.

Streamliner, Everbearing, 1000 plants, \$12.50.

Plants well packed, prompt shipment, all strictly labeled to name. Live arrival guaranteed.

SHANK FARMS
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**1960 A. A. C. S. Winner
SPARKLING BURGUNDY**
(Plant Pat. No. 1539)
A hardy Sasanqua of rare beauty.
CASADABAN'S NURSERIES
Abita Springs, La.

**EVERGREEN GRAFTS
POTTED LINERS
CONTAINER STOCK**
Ask for our latest list.
KENYONS NURSERY
Dover, Okla.

**Wholesale Growers of Broad-Leaved
and Coniferous Evergreens**
Ask for trade list.
LINDLEY NURSERIES, INC.
P. O. Box H Greensboro, N. C.

CHINESE CHESTNUT TREES
Seedlings only of the Peter Lui strain, 1-yr. whip and 2-yr. branched, mostly Nanking progeny. Also, properly stored weevil-free seed nuts. Our low costs of production permit low quantity prices. Inquiries invited.
LEELAND FARMS
Leesburg, Ga.

WINTER HARDY AZALEAS AND RHODODENDRONS
By Dr. Clement G. Bowers
A guide for the culture of the hardest kinds of azaleas and rhododendrons. Instructions on best soil, how to plant and the maintenance of these plants in the colder states. 120 p. (1964)...\$3.00
AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

pare finished drawings which can be shown to a customer as a means of selling the planting job. When the work is completed, the drawing originally used is photographed, and a print is framed for the customer. The original is kept by Mr. Ray. This discussion brought forth several questions, and an informative discussion followed.

Discussing the subject of proper records and a system of accounting, Albert Foley, Louisville, who has been working on a unified accounting system for some other businesses, gave members an opportunity to compare their accounting figures with those of others in the industry. Mr. Foley's plan was for nurserymen to send him copies of their figures, and he would make the comparisons and publish the results in booklet form so each nurseryman could compare his own with the average figures. No figures in the report would be identified as to source. Mr. Foley went into some detail as to various systems of record keeping, without trying to instruct as to which system was best.

Other Speakers

A. S. (Ollie) Gresham, Jr., Gresham's Nursery, Richmond, Va., treasurer and director, region II, A. A. N., extended greetings from the national organization, and told some of the activities and accomplishments of the organization.

For a program innovation Irvin J. Mathews, Gary, Ind., showed a series of colored slides taken on a trip through Africa which he and Mrs. Mathews had just completed. The beautiful photography included views of plant life of a kind most present had not seen before.

State Senator Alvin Kidwell, manager of Willadean Nurseries, Sparta, past secretary and past president, as well as charter member of the Kentucky Nurserymen's Association, was the next speaker. He is now serving his second term as president pro tem of the senate. His talk gave an understanding of the real problems of supplying the general public with what it has come to expect of government and of finding ways and means of paying the bill.

Social Features

The social side of the meeting was well planned, featuring two luncheons, two dinners and a special lunch and tour for the ladies. Attendance at each of these functions, as well as at the general meetings, was good; in fact, registrations showed an increase this year. The ladies' tour included visits to Spin-

PIGGOTT NURSERY CO.

Piggott, Ark.

We quote the following for spring or immediate delivery.

APPLE, 2-yr., grafted.	Each Per 10	Each Per 100	Each Per 1000
5 to 6 ft., 11/16-in. cal. and up.....	\$0.65	\$0.60	\$0.55
4 to 5 ft., 9/16-in. cal. ....	.55	.50	.45
3 to 4 ft., 7/16-in. cal. ....	.45	.40	.35
5 to 6 ft. 4 to 5 ft. 3 to 4 ft.			
Arkansas Black	60	30	20
Delicious, Red	120	120	130
Delicious, Double Red	460	600	150
Delicious, Yellow	700	1000	400
Early Harvest	100	250	100
Gano	20	15	...
G. G. Pippin	120	180	...
Lodi .....	...	100	60
Maiden Blush	80	50	...
Mammoth Black Twig	100	100	25
Red Jonathan	25	1200	500
Red June	50	200	180
Rome Beauty	20	100	30
Stayman Winesap	175	450	70
Winesap	120	250	150
Yellow Horse	60	30	...
Yellow Transparent	30	200	160

APPLE, 2-yr., budded. Same prices as quoted above on 2-yr., grafted.

	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.
Delicious	250	450	70
Delicious, Double Red	200	200	20
Delicious, Yellow	450	450	50

APPLE, 1-yr., budded.	Each Per 10	Each Per 100	Each Per 1000
4 to 5 ft., 9/16-in. cal.	\$0.50	\$0.45	\$0.40
3 to 4 ft. ....	.40	.37½	.35

	4 to 5 ft.	3 to 4 ft.
Delicious, Red	600	700
Delicious, Yellow	650	600
Jonathan, Red	50	100

PEACH, 1-yr., buds.	Each Per 10	Each Per 100	Each Per 1000
11/16-in. cal., 5 to 6 ft.	\$0.60	\$0.55	\$0.50
9/16-in. cal., 4 to 5 ft. ....	.50	.45	.40
7/16-in. cal., 3 to 4 ft. ....	.40	.35	.30
2 to 3 ft. ....	.30	.27½	.25
18 to 24 ins. ....	.25	.22½	.20

	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.
Belle of Georgia	160	100	50	50	50
Carman	30	50	40	30	...
Chinese Cling	30	40	60	50	40
Dixigem	40	70	60	50	60
Elberta	50	1000	1400	600	350
Golden Jubilee	30	60	40	30	20
Halehaven	100	300	200	30	50
J. H. Hale	150	50	200	100	50
Red Bird	150	150	50	50	50
Redhaven	50	20	...	...	...

PEAR, 1-yr., budded.	Each Per 10	Each Per 100	Each Per 1000
5 to 6 ft.	\$0.75	\$0.65	\$0.60
4 to 5 ft. ....	.60	.55	.50
3 to 4 ft. ....	.50	.47½	.45

	5 to 6 ft.	4 to 5 ft.	3 to 4 ft.
Bartlett	25	150	250
Kieffer	750	750	100

THOMAS WALNUT, budded	Each
300 5 to 6 ft.	\$1.50
400 4 to 5 ft.	1.40
200 3 to 4 ft.	1.20
700 2 to 3 ft.	1.00

TAXUS

	2 to 3 ins.	3 to 4 ins.	4 to 5 ins.	6 to 8 ins.	8 to 10 ins.	10 to 12 ins.
3-yr., R. C.	5c	6c	8c	10c	12½c	15c

5300 Andersoni	2850 Hicksi	350 Media
1000 Brevifolia nana	250 Hill's Dwarf	600 Repandens
4900 Cupidata	500 Hunnewell	250 Vermeulen
600 Hatfieldi	1200 Intermedia	2650 Wardi

Priced per 1000—500 at 1000 rate, lesser amounts add 25%.

HEMLOCKS

	8 to 12 ins.	12 to 15 ins.	15 to 18 ins.	18 to 24 ins.	24 to 30 ins.
3-yr., T.	35c	40c	50c	60c	75c

B&B — HEMLOCKS • PFITZER JUNIPERS • TAXUS — Truckloads

HUMPHREYS LANDSCAPE SERVICE

Mt. Sterling, Ky.

America's Finest

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Contract Growing Invited

Leading Patented and Popular Varieties

Grown in our nurseries at Tyler, Texas, and Phoenix, Arizona

Write for Variety List

CARL SHAMBURGER NURSERY

P. O. Box 458

Wholesale Only

Tyler, Texas

dletop, the Hunt-Morgan house, and to Ashland, home of Henry Clay. A lunch at Holliday Inn made the day most enjoyable. A buffet dinner Monday evening was followed by entertainment by youngsters from the recreation department of the city. An augmented group furnished entertainment after the banquet Tuesday evening.

The Hillenmeyers' cocktail party reflected genuine hospitality. In recognition of 25 years' service to the nursery industry, 22 of these years as secretary of the K. N. A., Howard G. Tilson was presented an inscribed silver vegetable dish at the banquet. Each woman received an orchid corsage. After a brief period of entertainment, dancing was enjoyed.

The business meeting Wednesday morning was a lively one, with a proposed rewritten constitution and bylaws occupying a large part of the discussion. Reports of committees were heard. The treasurer's report reflected a sound state of financial affairs. President Wallitsch reported on the A. A. N. convention at Philadelphia.

The production of grafted junipers has been a Kentucky industry for many years. The committee on this activity reported approximately 230,000 juniper grafts were produced for liners last season in Kentucky.

A letter from the chairman of the research and education committee of the Southern Nurserymen's Association was read and discussed. A motion was made and passed authorizing an expenditure of \$50 to help pay the expense of a University of Kentucky research man to attend a conference of research workers sponsored by the southern association. A motion was also passed authorizing the incoming president to name a delegate to the southern meeting.

Acting upon the invitation of Dr. Schneider, a research committee was appointed, consisting of Dan Gardi-

PINK FLOWERING DOGWOOD

New Low Prices for Spring

Cornus florida rubra (Pink-Flowering Dogwood), Boyd's			
Select Strain	Per 10	Per 100	Per 1000
6 to 12 ins., 1-yr.	\$ 5.00	\$ 45.00	\$ 400.00
12 to 18 ins., 1-yr.	6.00	55.00	500.00
18 to 24 ins., 1-yr.	8.00	70.00	650.00
24 to 30 ins., 1-yr.	10.00	90.00	800.00
30 to 36 ins., 1-yr.	12.50	110.00	1000.00
3 to 4 ft., 2-yr., br.	17.50	150.00	1400.00
4 to 5 ft., 2-yr., br.	30.00	250.00	2000.00
5 to 6 ft., 3-yr., heavy, br.	45.00	400.00	3000.00
6 to 8 ft., 3-yr., heavy, br.	60.00	500.00	4000.00
8 to 10 ft., 4-yr., heavy, br.	70.00	600.00	.....

Bloom Buds \$1.00 extra per plant 4 ft. and up.

(B&B 50c extra per tree.)

If you are a qualified nursery dealer write for our new spring descriptive wholesale catalog.

Boyd Nursery Co., McMinnville, Tenn.

HOLLIES



AMERICAN HOLLY

(Ilex opaca)

The most wanted plants in America. We offer these only in named varieties, of tried and proved worth.

ORIENTAL HOLLIES

Popular varieties, such as Ilex burfordi, I. cornuta femina, I. hetzi and I. rotundifolia. Write for descriptive wholesale price list.

STEPHENS NURSERIES

Semmes, Ala.

ILEX ROTUNDIFOLIA

	Each	Each
	Per 10	Per 100
12 to 15 ins., B&B.	\$1.25	\$1.00
15 to 18 ins., B&B.	1.50	1.25
18 to 24 ins., B&B.	1.75	1.50

Write for our wholesale list.

BUY QUALITY

TENNESSEE VALLEY NURSERY

Phone: WOODLAWN 7-2652
Winchester, Tenn.

Sold Out For Spring, 1960

Many Thanks!

Remember Us in Fall, 1960, and Spring, 1961

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Pineola, N. C.



Azaleas, Ilex and Magnolias

Lining-out and container-grown stock.

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Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

L. J. RAMBO'S WHOLESALE NURSERIES

Bridgman, Michigan

NURSERY STOCK WANTED

BROAD-LEAVED EVERGREENS and CONIFERS—B&B, POTTED, CANNED
(Note: We are prepared to buy complete blocks or fields ready to be cleaned.)

**SHRUBS, HEDGE PLANTS, SMALL FRUITS, VINES, etc.—B.R. & WRAPPED
FRUIT, SHADE and ORNAMENTAL TREES—B.R. and WRAPPED
ROSEBUSHES—BUSH and TREE ROSES—B.R., WRAPPED and POTTED
PERENNIALS—FIELD-GROWN—B.R. and POTTED**

**ALSO WANTED: PROMOTIONAL ITEMS FOR RESALE TO GARDEN
CENTERS AND DEALERS.**

SHIPMENT: Our trucks will pick up full or partial loads in any part of the United States or Canada.

AIRMAIL PRICES OR CALL US TODAY!

ATTENTION GARDEN CENTERS: If you have not received our 1960 spring catalog and wish to receive same, plus our special bulletins on promotional items to stimulate spring sales, send us your letterhead today!

GROWERS EXCHANGE, INC.

Phone: GRenleaf 4-4272

U. S. Hwy. 16

Farmington, Mich.

ner, chairman; Louis Hillenmeyer, Jr., and J. W. Fike. The secretary was instructed to send a mimeographed letter to all nurserymen asking for suggestions as to needs in the field of research.

The revision of the constitution and bylaws resulted in much discussion, and finally it was decided to send copies to all members for study. A copy of the old constitution and bylaws will also be mailed. It was hoped that the revision could be completed and adopted next year.

The summer meeting was scheduled for Mammoth Cave. Mitchell Leichhardt will make the local arrangements. Dick Taliaferro, Mount Pleasant Gardens, Fort Thomas, offered his services in helping to make individual arrangements for any who could attend the A. A. N. convention at Cincinnati next July. Election of officers followed, as given.

RE-ESTABLISHING his retail nursery in a new location at Route 2, Box 127, Green Forest, Ark., is Merle J. Lucas, who recently moved his business from Lombard, Ill.

THIEVES recently rifled the office safe at the DeKalb Nurseries, Norristown, Pa., and escaped with about \$200.

HILLSBOROUGH BULB CO.

P. O. Box 530 A

Foley, Ala.

GLADIOLUS BULBS

Prepackaged

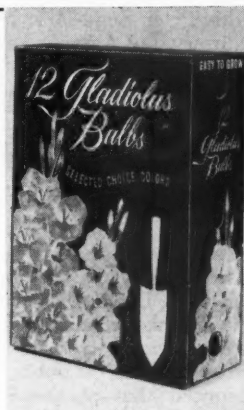
12 large bulbs per box.

Complete planting instructions and window on back of box.

36 packages per case

\$10.80 per case

F.O.B. Foley, Ala.



TREES FOR AMERICAN GARDENS, by Donald Wyman. 745 recommended trees, 1600 species and varieties. **\$8.00.** American Nurseryman, Chicago 4, Ill.

Teucrium Chamaedrys

	Per 100	Per 1000
Top Size	\$20.00	\$180.00
Medium Size	18.00	150.00

Write for complete trade list.

KINGWOOD NURSERIES
Mentor, Ohio

PYRACANTHA COCCINEA LALANDI
Commonly known as Firethorn. Our stock is grown from heavily fruiting stocks. Shrubs carry huge clusters of holly-like berries all winter. One of the most desirable foundation shrubs in the trade.

Liners, peat pots, \$25.00 per 100;
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BEARDSLEE NURSERY Perry, O.

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OREGON BULB FARMS
P. O. Box 512
GRESHAM, OREGON

Lilies

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CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

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SACRAMENTO 14, CALIF.

PENINSULA CHAPTER

The February meeting of the Peninsula chapter of the California Association of Nurserymen was held at Sakura Gardens, Mountain View, Calif., with 90 members and guests attending. Ben Furuichi, Los Altos Nursery, Los Altos, the host, introduced the guests, among them Chester Howe, district agricultural inspector for Santa Clara county.

Mrs. Iva Newman, garden editor of the San Mateo Times and a professional flower arranger, demonstrated and explained the intricate style of Japanese flower arrangement. The method Mrs. Newman demonstrated was initiated by the Japanese about 600 A. D.

Recent new members of the chapter include the Waterfall Nursery, Saratoga; Burlingame Garden Center, Burlingame, and the Shade & Shadow Nursery, Mountain View.

The next meeting will be held March 3 at L'Omelette, Palo Alto, with Peter Sugawara, Monte Bello Nursery, Los Altos, as host. The program will be the annual "turnabout"—suppliers bringing new plants and nurserymen introducing new gadgets.

C. J. B.

CENTINELA CHAPTER

At the January 28 meeting of the Centinela chapter of the California Association of Nurserymen, William Waldron, Los Angeles health department, spoke on household insects and the insecticides that are recommended to the general public. It was announced that at the February 25 meeting Adrian Herron, Herron Shade Gardens, Gardena, would show slides of plant life he had taken during his recent trip to the West Indies.

Eddie Yoshiki, Sec'y.

CENTRAL CHAPTER

A meeting of Central chapter of the California Association of Nurserymen was held at Bellini's, Oakland, February 9. After an Italian dinner, President Phil Cohn, Foothill Nursery, Oakland, called the meeting to order and introduced past presidents and guests.

Norvell Gillespie, publicity director for the California spring home and garden show, announced that

the forthcoming show theme would be "From Kew to Kyoto" and said that Howard Gilkey, the designer, was gathering ideas in Japan.

Frank Ogawa, Oakland, commenting on his recent trip through the southern growing area, announced that, in general, nursery stock will be in short supply this spring. Prices will be up and good-size stock hard to obtain, said Mr. Ogawa.

Al Modena gave a preview of what could be expected in new bedding plants this spring and announced that some recent introductions would be easier to obtain this year. He gave the history of the F₁ hybrid petunias and explained the difficulty in propagating them.

Rudolph Lindquist, Lindquist, Von Husen & Joyce, painted a comprehensive picture of the year 1960 as far as business is concerned. He announced that sales would be up,

but how much depended on the effort put in by the individual. The profit picture in our industry has not changed in the recent years, and in this the industry is lagging, according to Mr. Lindquist. Underpricing at the retail level seems to be the main trouble with many nurserymen who are following the trend of non-nursery outlets of green goods.

There were 96 in attendance for the dinner and meeting.

Larry C. Basker, Sec'y.

REDWOOD EMPIRE CHAPTER

The Redwood Empire and the Superior chapters of the California Association of Nurserymen held a joint meeting January 20, at the Nut Tree, Vacaville, Calif. The meeting, which was attended by 45 persons, was opened by Dick Oki, Oki Nursery, Perkins, and Richard L. Lackey, Lackey's Nursery, Napa, presidents of the Superior and Redwood Empire chapters, respectively.

After a short business meeting, Dick Kolb, Capital Nursery Co., Sacramento, introduced Wray Hiltabrand, supervisor of nursery service, who, in turn, introduced A. E. Morrison, agriculture commissioner for Sacramento county, who presented a talk entitled "The Progress of the



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"The widest variety . . field-proven growing quality . . immediate shipment . . these are reasons why Stribling's is your best source of supply for the busy ornamental-selling season just ahead. From dwarf boxwoods to towering cedars—we grow everything you need to give your customers an impressive choice in purchasing the West's most selective landscaping stock. May we send you our new, free Wholesale price list on container- and field-grown ornamentals today?"

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Business of Selling Nursery Stock." He said that as early as 1852 a nursery catalog was issued in the state, by the Warren Nursery, that listed many varieties of fruit and nut trees and grapevines. It was several years later that ornamentals became featured items in the catalogs, Mr. Morrison said.

With the growth of the nursery business, legislation was passed in 1881 providing for county supervisors to appoint a horticulture commissioner. The first such commissioner was appointed in Sacramento county. Between 1915 and 1945, the inspection work of the county agriculture commissioner underwent a gradual change, so that today the inspection takes place at the source of the shipment. This eliminated great losses caused by growing and shipping diseased and infected nursery stock. During the same period, much work was done to control the spread of crown-gall and root-knot nematodes.

The bureau of nursery service was set up in 1922 by the agriculture department, which also required the licensing of nurseries to support the program. The number of nurseries in Sacramento county increased from 27 in 1930 to 237 in 1959, Mr. Morrison said.

From 1940 to the present time, pest control measures received great emphasis. Also during this time, the practice of prepackaging nursery products, especially roses, was developed, making it impossible for the commissioner to inspect all plants. Thus the inspection of nurseries became more important, and intra-county pink tags, or pinto tags, were required to certify the cleanliness of the producing nursery. Mr. Morrison said that now all but two California counties accept shipments made under pinto tags and that this program is being studied with the possibility of extending it to other western states.

In 1957, legislation was passed that furthered the program for promoting cleaner nursery stock and inspection of nursery grounds to certify absence of pests and diseases before a license can be issued.

In conclusion, Mr. Morrison said that it is still necessary to provide nurserymen with a reliable and feasible method for treatment of soil used in container growing of nursery stock, to eliminate soil-borne insects and diseases. Hugh Wallace, Sec'y.

FREE rose pruning demonstrations were recently offered at the Reedley Nursery, Reedley, Calif.

BECAUSE

our harvest yield was greater than anticipated

and

BECAUSE

of ideal keeping conditions this winter

IN ORDER TO SERVE YOU



We are keeping our shipping department
open longer than usual

Let Us Know Your Last Minute Needs



WEEKS WHOLESALE ROSE GROWER
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OREGON HOLLIES

Skimmia japonica
General Nursery Stock
May we quote you?

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Wholesale Grower
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ORNAMENTAL WOODY PLANTS AND ROSES

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Rhododendron Liners • Hardiest Camellias
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Azaleas • Pieris • Hollies • Lilacs • Skimmia

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ACER PLATANOIDES

Drummondii Variegated Norway

Maple

- 6 to 8 ft., br.
- 5 to 6 ft., br.
- 8 to 9 ft., whips
- 7 to 8 ft., whips

Faassen's Red-Leaved Maple

- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.
- 8 to 9 ft., whips
- 7 to 8 ft., whips
- 6 to 7 ft., whips

Norway Maple

- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.

Pyramidal Columnar Maple

- 8 to 9 ft.
- 7 to 8 ft.
- 6 to 7 ft.

ACER PSEUDOPLATANUS

(Plane Tree Maple)

Improved Spaeth

- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.

ACER RUBRUM

(Red Maple)

- 10 to 12 ft., br.
- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.
- 4 to 5 ft., br.

FRAXINUS QUADRANGULATA

(Blue Ash)

- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.

SORBUS AUCUPARIA

(European Mountain Ash)

- 8 to 10 ft., br.
- 6 to 8 ft., br.

BETULA ALBA

(European White Birch)

- 12 to 14 ft., br.
- 10 to 12 ft., br.
- 8 to 10 ft., br.
- 6 to 8 ft., br.
- 5 to 6 ft., br.
- 4 to 5 ft., br.

Prices and catalog sent upon request.

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MILTON NURSERY CO.

Since 1878

MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade Trees and Shrubs, Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

Licensed Growers of

Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Sunburst Locust (Pat. No. 1313)
Crimson King Maple (Pat. No. 735)

Send for Our Price List

Our combination carlots for eastern distributing points during shipping season save freight costs.

Mention The American Nurseryman when you write.

ROSES OLD and NEW

Fine-quality, two-year plants budded on Multiflora in over 250 varieties.



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FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES

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Constant Vigilance Results in Quality Stock

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Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

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SAN GABRIEL, CALIF.

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PORTLAND 19, OREGON

WHOLESALE
GENERAL NURSERY STOCK

OREGON NOTES

The dates and locale of the 1961 Oregon Association of Nurserymen convention have been changed, due to action at the recent board meeting held at Eugene. The convention is now slated for the Multnomah hotel, Portland, January 25 and 26, 1961.

Mr. and Mrs. Joe Klupenger, Klupenger Nursery & Greenhouses, Inc., Portland, received a surprise Sunday, February 7, when a 25th wedding anniversary celebration planned by their sons and daughters was held. A breakfast, church service and reception were held for the couple, neither of whom had any indication that the events were being planned.

Mr. and Mrs. Bert Miller, Milton Nursery Co., Milton-Freewater, attended the Illinois State Nurserymen's Association meeting January 11 to 13, stopping on the way home to attend the Washington State Nurserymen's Association convention at Seattle. Erwin Fowler, of the same firm, also attended the Illinois meeting.

The Oregon Association of Nurserymen has appealed to its members to support the highway protection committee program by volunteering to circulate petitions to get the bill-board control measure on the November, 1960, ballot.

An item in the Portland newspapers recently told about the loss of golden pheasants, killed by dogs, which were owned by P. L. Van der Bom, Voterbeck & Van der Bom Wholesale Nursery, Portland. Mr. Van der Bom kept the pheasants for the enjoyment of people who visited the nursery, he said.

The Landscape Gardeners' Association, Inc., Portland, held its annual banquet in the Mayfair room of the Benson hotel, Portland, January 16, with an attendance of 117 members and wives. Presiding was John Carle, Portland landscape nurseryman. M.C. for the evening's program was Harold Tooze, Tooze Floral Service, Portland. The speaker was Dr. Linden H. Smith. The committee in charge of the annual meeting consisted of Frank Doerfler, F. A. Doerfler & Sons, Salem; Charles Jamison, Jamison Fertilizer Co., Portland; Harold Tooze, and Emmett Shaffer, Shaffer's Pansy Gardens, Portland.

Word has been received from J. Vernon Marshall, Marshall Nursery & Florist, Medford, that Mrs. Marshall is now home from the hospital. She is still seriously ill, but is reported to be on the road to recovery.
C. H. P.

LOOK—WE INVITE YOU TO COMPARE LOOKING FOR AN OPPORTUNITY? —HERE ARE FOUR—

ONCE AGAIN—we give the nursery trade a chance to capitalize on an opportunity. FINE, HEAVY, NURSERY-GROWN stock at prices comparable to BULK-GROWN REFORESTATION SEEDLINGS.

Bushy, good tops, good roots, grown right and packed right by this old reliable firm. Offer good to April 15 only. Cash, of course. 25 per cent will reserve. Get a carload or a truckload. Prices F.O.B. Gresham. No packing charge.

WONDERFUL FOR:

Christmas Trees — Mail Orders — Reforestation — Windbreaks — Hedges — Growing on — Highway Planting — Containers — Estates, etc.

SUPERB LANDSCAPE SUBJECTS

DID YOU KNOW?

That along the Columbia River are petrified logs of Ginkgo, Redwood, Douglas Fir, Maple, Walnut and others.

REFER TO OUR DESCRIPTIVE
WHOLESALE CATALOG FOR A
WHOLE HOST OF OTHER FINE
EVERGREEN MATERIALS—
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Wholesale list available—trade only.
(It contains complete descriptions)

CORBETT, ORE.

1

PICEA EXCELSA (Norway Spruce)
12 to 18 ins.

5-year-old trees, once transplanted.
1000 to 5000.....**12c** each
5000 and up.....**10c** each
Sample bunch of 25 trees, **\$3.50**

2

PICEA PUNGENS (Colorado Spruce)
9 to 15 ins.

5-year-old trees, once transplanted.
1000 to 5000.....**14c** each
5000 and up.....**10c** each
Sample bunch of 25 trees, **\$4.00**

3

PINUS ARISTATA (Bristlecone Pine)
3 to 6 ins.

3-year-old trees, not transplanted.
World's most beautiful conifer.
1000 to 5000.....**14c** each
5000 and up.....**12c** each
Sample bunch of 25 trees, **\$4.00**

4

TSUGA CANADENSIS (Canada Hemlock)
12 to 30 ins.

5-year-old trees, once transplanted.
1000 to 5000.....**25c** each
5000 and up.....**21c** each
Sample bunch of 25 trees, **\$7.50**

OREGON CONVENTION [Continued from page 13]

grass, Esch Nursery, Portland, presided at the business session. Reed Vollstedt presented Mayor Edwin E. Cone of Eugene. In his warm welcome to the nurserymen, Mayor Cone called attention to the \$2,700,000 park improvement plans for the city and invited nurserymen to tour the city's parks.

President Snodgrass in his talk gave an excellent review of the accomplishments of the O. A. N. during 1959.

He brought out particularly the excellent part played in state association affairs by the chapters. He reminded members of the big job done by the association for the "International Garden of Tomorrow" during the Oregon centennial celebration, a task led by Joseph Klupenger, Klupenger Nursery, Portland. To some the news of the association incorporation, which took place in 1959, seemed new. Legislative "scares" were recalled, with their



New!

Dwarf Cannas Are in Demand

Hybridized by that fine German hybridizer, Wilhelm Pfitzer. The new dwarf Canna is so dwarf that it is just 30 to 36 ins. high. In demand by landscape architects everywhere. Large trusses of flowers provide new ideas in color for new modern homes.

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Hardy and semihardy varieties.
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The story of the Malling Apple rootstocks from IX to XVI—and their successors, the M. M.'s 104, 106, 109, 111 and M.XXV. Performance figures, etc.
Free for the asking.

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**Specializing in Fruit Tree Seedlings,
Shade and Flowering Trees**

French and
Domestic Apple Seedlings,
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Str. and Br.

French Pear Seedlings,
Str. and Br.

Calleryana Pear Seedlings,
Str.

Manchu Cherry Seedlings
(Prunus tomentosa)

Mahaleb Cherry Seedlings

Mazzard Cherry Seedlings

Myrobalan Plum Seedlings

American Plum Seedlings

Angers Rooted Quince
Cuttings

Combination carloads to eastern distributing points.

John Holmason & Sons
Props.

FIRE SALE!

If we operated a department store we would be having a fire sale; however, our business is trees.

We want to take this opportunity to thank all our friends for their patience and cooperation since January 18, when our warehouse and a sizable amount of trees burned. We are still in business and have the following plants for sale:

Ash, Blue, 5 to 6 ft. to 8 to 10 ft.

Birch, Cut-Leaved, 3 to 4 ft. to 5 to 6 ft.

Birch, European White, 3 to 4 ft. to 6 to 8 ft.

Maple, Faassen's Red-Leaved, 6 to 8 ft. and 8 to 10 ft.

Maple, Norway, 5 to 6 ft. to 8 to 10 ft.

Flowering Crab Apple, Eley and Hopa, 3 to 4 ft. to 6 to 8 ft.

Flowering Cherry, Kwanzan and Mount Fuji, 3 to 4 ft. to 5 to 6 ft.

Laburnum vossii, 6 to 8 ft. and 8 to 10 ft.

Mt. Ash, European, 5 to 6 ft. to 8 to 10 ft.

All trees listed are branched.

Additional special spring surplus list sent on request.

WEEDIN NURSERY

Rt. 2, Box 1170

Troutdale, Ore.

Phone: MOhawk 5-6343

successful handling, as was the fine work done by nurserymen at the Multnomah "Parade of Gardens" last spring. He thanked James Doty, Doty & Doerner, Portland, for the manner in which the state meeting at Gearhart was handled, and he referred to the California stock rejections, which since have been modified. He told the group that the O. A. N. had joined with A. A. N. chapter 12 in inviting the American Association of Nurserymen to hold its 1963 convention at Portland. In closing, he said that the Eugene convention was a kick-off for 1960 and the golden sixties ahead. He urged nurserymen to participate to the fullest.

Secretary's Report

Executive Secretary Charles H. Potter, in his annual report, reviewed the board's activity of the past year, calling attention to the conscientious manner in which members attended and served at the various meetings. He paid tribute to the chapters as the real core of association activity. Citing the over-all functions of the secretary's office, he urged members to take advantage of the services being offered. He predicted continued success for the association and closed with a few words about the association's publication, the O. A. N. Digger. Treasurer Paul Van Allen repeated the financial report given to the board, and Executive Secretary Potter gave the annual necrology report, which showed that four members died in 1959.

Frank Schmidt, Jr., Troutdale, reported as chairman of the Oregon Bulb, Florist and Nursery Council, which met recently at Portland. Two projects at Oregon State College, he said, were completed last year and eight are continuing. R. E. Hallows, he said, is working for his master's degree on the nursery fellowship in the department of botany and plant pathology.

Mr. Schmidt said that Dr. K. G. Swenson, department of entomology, O. S. C., gave his evaluation of six projects underway. S. S. Sohi, he said, is doing research work made possible by the Oregon Bulb, Florist and Nursery Council.

Dr. A. N. Roberts gave the horticultural department report, said Mr. Schmidt, in which progress on seven research projects was related. Conrad Weiser is a fellowship assistant who is working for his Ph.D. degree under the direction of Dr. Blaney in the horticultural department, said Mr. Schmidt. The work being headed by Dr. Ticknor at the North Wil-

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lamette branch experiment station was also cited. The Oregon Bulb, Florist and Nursery Council at the recent meeting proposed expenditures for 1960-61 amounting to \$8,460.

Valleau Curtis Talks

Featured speaker of the first morning was Valleau Curtis, who was presented by Paul Van Allen. Mr. Curtis first brought greetings to the group from Executive Vice-president Richard White. He referred to the problem always threatening nurserymen from the taxation standpoint and reminded them of the alert manner in which the A. A. N. had handled such matters in the past.

In regard to government-supported nurseries, he said that federal funds for such a purpose were likely to be further reduced in 1960. He referred to this as a "real win" for Dr. White. The fight concerning a rise in postal rates had not been so successful, he acknowledged. He predicted that the coming year will see plenty of activity in Congress designed to extend labor benefits, including a possible attempt to raise the minimum hourly wage from \$1 to \$1.25.

On highway landscaping, he said that much had been done in the east, but he hastened to say that perhaps the need was not so great in the west. The A. A. N. has been trying to influence the bureau of roads to encourage states to do a good landscaping job along highways.

Mr. Curtis praised the fine work of regional director L. H. McGuire, Tacoma, Wash. Next he mentioned A. A. N. insurance and its benefits. He urged cooperation by nurserymen with the United States horticultural specialty census, stating that it is of great value to the industry. He referred to the value of the management conferences sponsored by the A. A. N. and told about the backing given Arie den Boer's book on crab apples, stating that it is a work of exceptional merit.

He said that the nematode problem is prevalent through the country. Convinced that something should be done about it, the A. A. N. officials are sponsoring a nematode conference at Washington, D. C., in March. Nematologists, with others, from all over the country will be invited to participate.

It is time, said Mr. Curtis, that people in general took a greater interest in politics. He urged nurserymen to work hard at the lower level of the political system in an effort to prevent poor decisions from being

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made in the legislative field. Public relations, he said, are being stressed by the A. A. N., but the efforts are still not enough. He believed the efforts should be doubled.

Attendance at the A. A. N. convention at Cincinnati, O., July 16 to 20, was urged. More A. A. N. members are needed, too, he said. Barring a national disaster, he believes the nursery business would greatly improve in the decade ahead.

Trade Fair

The trade fair was another successful event in the history of these O. A. N. exhibitions. Space was filled to capacity. Exhibitors placed attractive displays in the Village Green room and in the King Cole foyer. Periodically, time was allotted during the meetings to allow those attending the convention to browse around the trade fair. At the beginning and end of each day, also, there was ample time to visit the exhibits. To be eligible for a valuable transistor radio prize, each one had to visit every one of the exhibits. Valuable pamphlets, matches, samples and free Cokes and coffee were among the give-aways offered in the trade fair room.

Practically all of the ladies attending the convention were on hand for the ladies' tea and style show held at Bon Marche Russell's department store. Lovely models showed dresses and hats to the ladies, and tea, coffee, sandwiches, cake and sherbet were served.

Caring for Canned Plants

"Prof." W. P. (Pete) Nuffer, Troutdale, was the head schoolmaster of the popular "Hard Knocks Kollege," assisted by "teachers" Ed Wood and Paul Van Allen, both of Portland. Mr. Nuffer led off with a discussion on "Caring for Canned Plants in the Retail Nursery."

Mr. Nuffer first said that there is a considerable difference of opinion among nurserymen concerning this question. In the retail nursery, the problem is one of maintaining in first-class salable condition those plants which someone has already grown to the selling stage. A quick turnover minimizes the problem. Retailers, said Mr. Nuffer, should endeavor to simplify the problem as much as possible. The basic factors of retail plant care are these: (1) Watering, (2) feeding, (3) pest control and (4) weather protection.

The retailer should adopt a watering system which best fits the particular operation, but the most important thing is regularity, a point which he also stressed about feed-

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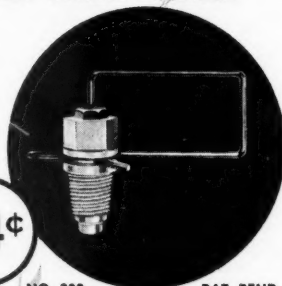
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ing and pest control. He advised retailers to make the watering chore as automatic as possible and advised against leaving the watering job to the sales personnel or just "anyone." This job must be done on schedule, regardless of other things needing attention. Underwatering is more of a danger than overwatering nowadays, with today's better understanding of soil mixes, Mr. Nuffer pointed out.

Regular Feeding Best

Regular feeding should be given plants in stock, regardless of weather. Feeding every two weeks is about right in most instances. He suggested the use of the milder organic fertilizers in the retail sales nursery, with nitrogen being the main concern.

Pest control applications should be made at 2-week intervals. Plenty of lath house space is needed to give both summer and winter protection. Frequently, the winter protection is the more important. He advised retail nurserymen to have some place handy (such as plastic houses) where plants can be given protection in a hurry when bad weather threatens.

E. A. Wood, Wood Floral Co., Portland, talked about "Ground Covers for More Sales," predicting that these plants will become increasingly important in the nursery sales picture. His comments and a list of recommended ground cover plants will be published in a later issue of this magazine.

Paul Van Allen covered the subject of "Shade Trees," with particular emphasis on correct grading. He referred to the shade tree grades in "American Standard for Nursery Stock," which he said all nurserymen should use. These standards include a correct relationship between caliper of the trunk and the height of the tree; suitability for street planting; root spread, etc. The caliper relationship to the height is probably where the most trouble exists, he said. Adhering to standards is extremely important.

Mr. Van Allen said that good ornamentals should have beautiful flowers, wonderful fruit and lovely foliage, as well as good form, real hardiness, resistance to disease and pests and the ability to withstand normal winter severity. He pointed out that city ordinances today are making the selection of proper trees important, due to possible sidewalk damage from roots, interference with power and telephone lines, etc. Crab apples are among the finest of trees from an all-around standpoint.

[Continued on page 131]

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New Azalea with longer lasting flowers!
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8 to 10 ins., \$1.15 each, packed 16's.
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Free, exotic book of over 100 colored pictures with order of 500 or more plants.
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Buxus sempervirens, 6 to 8 ins., 2-yr., from open field beds, 100, \$10.00; 1000, \$90.00.
Mountville Nurseries, Mountville, Ga.

CHESTNUTS

Chinese Chestnuts, 18 to 24 ins., 100, \$17.50; 1000, \$150.00. Have grown this strain for over 30 years and no blight has shown up.
Mountville Nurseries, Mountville, Ga.

CHRYSANTHEMUMS

IT'S "MODERN MUM" TIME AGAIN

Heavy rooted cuttings. 10 100
AK-SAR-BEN, unusual, large quilled soft, tarty and red hues.\$1.40 \$12.00
Anethystine, rosy purple 1.00 8.50
DANDY, new, incurving, copper-bronze, early bloomer 1.40 12.00
John Furst, glowing orange 1.00 8.50
PINK SPOON CUSHION, huge pink flowers with multiple rows of spoon-tipped petals.
A very exciting newcomer 1.00 8.50
Send for our complete list now.

FLEMING'S FLOWER FIELDS

3100 Leighton Ave. Lincoln, Neb.

FLORETUM COLORFUL GARDEN MUMS
Bred for early blooming, frost tolerance, winter hardiness. There is no substitute for truly hardy, colorful garden Mums. Ask for trade list.

PRAIRIE SOUTHWEST FLORETUM

Fall River, Kan.

HARDY GARDEN MUMS

Strong rooted cuttings, \$6.00 per 100, \$55.00 per 1000. Send for list of 100 good varieties.
THON'S PERENNIAL GARDENS
26 W. Golf Rd. Arlington Heights, Ill.
Phone HE 7-3184

Garden Mum rooted cutting list, 70 varieties. Extra discount on early orders. Send for yours today; post card is O.K.
Fairview Nursery, Coon Rapids, Ia.

9,500 Active Nurserymen

are in need of stock.
List your offerings in the
American Nurseryman Classified Section.

CLEMATIS

CLEMATIS VINES

Large-flowering, from 2 1/2-in. pots.
Each, 10 100
Gypsy Queen, dark purple\$0.50 \$0.45
Henry, white50 .45
Lady Betty Balfour, purple50 .45
Ville de Lyon, red50 .45
From 4-in. pots.
Ville de Lyon, red65
Lanuginosa candida, white65
Cash with order.

FOUR STAR NURSERY

8216 238th St., S. W. Edmonds, Wash.

DELPHINIUMS

GIANT PACIFIC DELPHINIUM, 2 1/2-IN. Galahad, Summer Skies, Blue Bird, Black Knight, Astolat, King Arthur, 50 plants, \$5.50; 100 plants, \$10.00; 500 plants, \$47.50; 1000 plants, \$90.00. Delivery now through September.

DELPHINIUM SEEDLINGS

Above varieties, 100 or more plants per flat, \$3.50 per flat; 2 or more flats, \$3.00 per flat. Shipped express in our new "Saf-Tee-Pac-Way." Delivery now through September.
SCHMIDT GREENHOUSES, HARVARD, ILL.

DOGWOODS

PINK DOGWOOD

Cornus florida rubra (1-yr.)

Each	per 100
6 to 12 ins. ....\$0.40	\$0.35
12 to 18 ins. .... .50	.45
18 to 24 ins. .... .60	.55
24 to 30 ins. .... .85	.75
30 to 36 ins. 1.00	.90
2 to 3 ft., 2-yr. 1.25	1.15
3 to 4 ft. 1.50	1.40
4 to 5 ft. 2.50	2.25
5 to 6 ft. 3.50	3.00

WHITE-FLOWERING DOGWOOD

Cornus florida (2-yr.)

Each	per 100
4 to 5 ft., br. ....\$1.25	\$1.00
3 to 4 ft., br. .... .90	.60
2 to 3 ft., br. .... .50	.40
18 to 24 ins., br. .... .30	.20
12 to 18 ins., br. .... .15	.10

GALE'S DOGWOOD NURSERY
P. O. Box 411 Winchester, Tenn.

20,000 DOGWOOD

Each	per 100
Cornus florida	
6 to 8 ft., heavy, 1 1/2 to 1 3/4-in. cal. ....\$3.00	
8 to 10 ft., extra heavy, 2-in. cal. 5.00	
6 to 8 ft., heavy, 1 1/2 to 1 3/4-in. cal. 6.00	
8 to 10 ft., extra heavy, 2-in. cal. 8.00	

(B&B, \$1.00 per tree.)
VOYTESHARK FARM NURSERIES
Cor. Naugatuck Ave. and W. Rutland Rd.
Phone TR 4-3498 Milford, Conn.

EVERGREENS, Liners

TAXUS CAPITATA

Per 100	Per 1000
2-yr., seedlings, 4 to 6 ins. ....\$10.00	\$80.00
4-yr., seedlings, 8 to 12 ins. 20.00	150.00
4-yr., seedlings, 12 to 15 ins. 25.00	200.00
T, 6 to 12 ins. 30.00	250.00
T, 8 to 15 ins. 37.50	350.00
5-yr., TT, 8 to 12 ins. 55.00	500.00
4-yr., 2 1/2-in. pots, 4 to 8 ins. 27.50	250.00

1-YR., 2 1/2-IN. ROSE POTTS

Per 100	Per 1000
Taxus media Adams, 4 to 6 ins. ....\$20.00	\$180.00
Taxus media andersoni, 4 to 6 ins. 22.00	200.00
Taxus media browni, 4 to 6 ins. 22.00	200.00
Taxus media cliftoni, 4 to 6 ins. 22.00	200.00
Taxus cuspidata, 4 to 6 ins. 22.00	200.00
Taxus cuspidata, semilup, 4 to 6 ins. 22.00	200.00
Taxus media densiformis, 4 to 6 ins. 27.50	250.00
Taxus media hatfieldi, 4 to 6 ins. 22.00	200.00
Taxus media hatfieldi No. 18, 4 to 6 ins. 22.00	200.00
Taxus dwarf hesleyi, 4 to 6 ins. 24.00	220.00
Taxus media hicksi, 4 to 6 ins. 22.00	200.00
Taxus media hunnewelliana, 4 to 6 ins. 27.50	250.00
Taxus intermedia, 4 to 6 ins. 22.00	200.00
Taxus media kelseyi, 4 to 6 ins. 22.00	200.00
Taxus media Moon's columnaris, 4 to 6 ins. 22.00	200.00
Taxus media thayerae, 4 to 6 ins. 22.00	200.00
Taxus media waldii, 4 to 6 ins. 27.50	250.00

Juniper, Andorra compacta, 4 to 6 ins. 22.00 200.00
Juniperus communis depressa aurea, 4 to 6 ins. 22.00 200.00
Juniperus glauca hetzi, 4 to 6 ins. 22.00 200.00
Juniperus (Irish) fastigiata, 4 to 6 ins. 22.00 200.00
Juniperus chin. nelsoni, 4 to 6 ins. 22.00 200.00
Juniperus chin. pfitzeriana, 4 to 6 ins. 22.00 200.00
Juniperus chin. pfitzeriana glauca, 4 to 6 ins. 27.50 250.00
Thuja occ. elegantissima, 4 to 6 ins. 22.00 200.00
Thuja occ. pyramidalis, 4 to 6 ins. 22.00 200.00
Thuja occ. (Siberian), 4 to 6 ins. 22.00 200.00
Thuja occ. Hetz's Winter Green, 4 to 6 ins. 22.00 200.00
Thuja occ. woodwardi, 4 to 6 ins. 22.00 200.00
Ilex convexa bullata, 3 to 6 ins. 22.00 200.00
Ilex crenata hetzi, 4 to 6 ins. 22.00 200.00
Ilex crenata rotundifolia, 4 to 6 ins. 18.00 170.00

2-YR., 2 1/2-IN. ROSE POTTS
Taxus media andersoni, 6 to 12 ins. 27.50 250.00
Taxus media browni, 6 to 12 ins. 27.50 250.00
Taxus media cliftoni, 6 to 12 ins. 27.50 250.00
Taxus cuspidata, 6 to 12 ins. 27.50 250.00
Taxus cuspidata, semilup, 8 to 12 ins. 27.50 250.00
Taxus media Halloran, 6 to 12 ins. 27.50 250.00
Taxus media hatfieldi, 6 to 12 ins. 27.50 250.00

(Continued in next column)

(Continued from previous column)

Taxus media hatfieldi No. 18,	27.50	250.00
6 to 8 ins.	27.50	250.00
Taxus hesleyi, dwarf, 6 to 8 ins.	27.50	250.00
Taxus media hicksi, 6 to 12 ins.	27.50	250.00
Taxus media hunnewelliana, 6 to 8 ins.	35.00	300.00
Taxus intermedia, 6 to 12 ins.	27.50	250.00
Taxus media thayerae, 6 to 12 ins.	27.50	250.00
Taxus cusp. vermeulenii, 6 to 12 ins.	27.50	250.00
Taxus media waldii, 6 to 12 ins.	35.00	300.00
Taxus media wellenleyniana, 6 to 12 ins.	27.50	250.00
Taxus media wymani, 6 to 12 ins.	30.00	275.00

2-YR., TT, FIELD

Juniper, Andorra compacta,	30.00	275.00
6 to 12 ins.	30.00	275.00
Juniperus communis depressa aurea, 4 to 8 ins.	30.00	275.00
Juniperus glauca hetzi, 6 to 12 ins.	30.00	275.00
Juniperus chin. nelsoni, 6 to 12 ins.	35.00	300.00
Juniperus chin. pfitzeriana, 6 to 12 ins.	30.00	275.00
Juniperus chin. pfitzeriana glauca, 6 to 8 ins.	30.00	275.00

3-YR., TT, FIELD

Taxus media Adams, 8 to 12 ins.	30.00	275.00
Taxus media andersoni, 6 to 12 ins.	35.00	325.00
Taxus media browni, 8 to 12 ins.	40.00	350.00
Taxus cusp. capitata, seedling-grown, 8 to 15 ins.	40.00	350.00
Taxus media cliftoni, 8 to 12 ins.	40.00	350.00
Taxus cuspidata, 8 to 12 ins.	35.00	325.00
Taxus cuspidata, semilup, 8 to 12 ins.	40.00	350.00
Taxus media hatfieldi, 8 to 12 ins.	40.00	350.00
Taxus media hatfieldi No. 18, 8 to 12 ins.	40.00	350.00
Taxus media hicksi, 8 to 12 ins.	40.00	350.00
Taxus intermedia, 6 to 12 ins.	40.00	350.00
Taxus media thayerae, 6 to 12 ins.	40.00	350.00
Juniperus glauca hetzi, 12 to 15 ins.	40.00	375.00
Juniperus chin. nelsoni, 8 to 12 ins.	40.00	375.00
Juniperus chin. pfitzeriana, 12 to 15 ins.	40.00	375.00
Thuja occ. elegantissima, 12 to 15 ins.	40.00	350.00
Thuja occ. pyramidalis, 12 to 15 ins.	40.00	350.00
Thuja occ. Hetz's Winter Green, 12 to 18 ins.	40.00	350.00
Thuja occ. woodwardi, 6 to 12 ins.	45.00	400.00
Retinispora nana aurea, 8 to 12 ins.	50.00	450.00

4-YR., TT, FIELD

Taxus media Adams, 12 to 15 ins.	40.00	350.00
Taxus media andersoni, 8 to 12 ins.	45.00	400.00
Taxus media browni, 8 to 12 ins.	50.00	450.00
Taxus capitata, 8 to 15 ins.	40.00	350.00
Taxus cuspidata, 10 to 15 ins.	45.00	400.00
Taxus media hatfieldi, 8 to 12 ins.	50.00	450.00
Taxus media hatfieldi No. 18, 8 to 12 ins.	50.00	450.00
Taxus media hicksi, 12 to 15 ins.	50.00	450.00
Taxus intermedia, 8 to 12 ins.	45.00	400.00

Partial list of liners. Catalog on request.
HEASLEY'S NURSERIES
247 Freeport Rd. Butler, Pa.

EVERGREEN SEEDLINGS

Per 100	Per 1000
Scotch Pine, 8 to 16 ins. ....\$4.00	\$20.00
Scotch Pine, 4 to 8 ins. 3.00	15.00
Austrian Pine, 8 to 16 ins. 4.00	20.00
Austrian Pine, 4 to 8 ins. 3.00	15.00
Red Pine, 8 to 16 ins. 4.00	20.00
White Spruce, 3 to 5 ins. 3.00	15.00
Norway Spruce, 2 to 4 ins. 3.00	15.00
Eastern Red Cedar, 6 to 10 ins. 4.00	20.00
Eastern Red Cedar, 4 to 8 ins. 4.00	20.00

TERMS: Cash with order earns free packing, otherwise 25 per cent down, balance before shipment.

DUNEGAN NURSERY

Clymer, Pa.

HUSKY, BEDDED LINERS

Per 100	Per 1000
Arborvitae elegantissima ....\$19.00	\$190.00
Arborvitae woodwardi 18.00	180.00
Boxwood (extra hardy variety) 18.00	180.00
Ilex crenata convexa 18.00	180.00
Ilex crenata hetzi 18.00	180.00
Ilex crenata rotundifolia 18.00	180.00
Taxus cuspidata 18.00	180.00
Taxus browni 19.00	190.00
Taxus hunnewelliana 19.00	190.00
Taxus intermedia 19.00	190.00
Taxus hicksi 19.00	190.00
F.O.B. Alliance, O. Subject to prior sale.	

Cash or check with order, please.
CRUMME NURSERY
R. D. 2 Alliance, O.

JUNIPER GRAFTS

Varities: Canaert, keteleeri, burki, glauca, Dundee, Chinese columnaris, blue; Pfitzer and hetzi. All on virginiana understock.
Price, 45c each, regardless of the number purchased.

Terms: One-fourth cash with order and the balance before shipping date. Boxing and packing at cost. All cash with order earns free boxing and packing.

WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.
T. C. CRUME NURSERY
& LANDSCAPING CO.
Highway 42 Florence, Ky.
Phone ATlantic 3-2381

EVERGREENS, Liners—Continued

A HIGH SURVIVAL RATE
IS A MUST FOR PROFIT

Each 6 per cent drop means 20 per cent of profit lost. All profit gone if survival drops below 75 per cent. Customers report over 95 per cent COLD PROCESSED, CURED ROOTS, TAXUS CUTTINGS, LIVE.

PLANT OUR HIGH QUALITY LINERS
FOR PROFIT.

I—ROOTED CUTTINGS: Each
(a) From heated beds. Heavily rooted:
Juniperus chinensis prostrata, best pan-
cake form. Dark blue-green color...\$0.20
Juniperus glauca hetzi... .15
Juniperus horizontalis plumosa... .15
Thuja occ. boothii, the best globe... .15
Thuja occ. nigra, dark American... .15
Thuja occ. rosenhalli, dwarf pyramid... .15
(b) TAXUS cuttings from COLD
PROCESS BEDS with CURED
ROOTS. The finest Taxus cuttings
offered to the trade:
Taxus cuspidata, spreader or upright...\$0.10
Taxus c. capitata, from side branches... .10
Taxus brevifolia, large spreader... .15
Taxus c. nana-brevifolia, dwarf... .15
Taxus media, hatfieldi or hicksi... .10

II—LINERS FROM BEDS:
(a) Grown from seedlings:
Azalea schlippenbachii... Age Ins. Price
Chamaecyparis pisifera... TT-4 6 to 12 .25
12 to 18 .35
Euonymus alatus... TT-5 12 to 18 .60
Pieris japonica... T-3 3 to 8 .30
8 to 12 .40
12 to 18 .60
Pinus mugo mughus, dwf... TT-5 4 to 8 .40
8 to 12 .50

(b) Grown from rooted cuttings:
Juniperus ch. pfitzeriana... T-2 6 to 10 .40
Juniperus ch. prostrata... T-1 4 to 6 .35
T-2 4 to 8 .45
TT-3 6 to 10 .55
TT-4 8 to 12 .70
12 to 18 .90
Taxus baccata repandens... T-2 3 to 6 .40
Taxus cuspidata, spreader or upright;
Taxus c. capitata: Media browni, hat-
fieldi, hicksi or mooni-columnaris
T-1 4 to 8 .20
T-1 1/2 4 to 10 .25
T-2 1/2 6 to 10 .40
T-3 3 to 7 .25
T-1 1/2 4 to 8 .35
Thuja occ. boothii, nigra or rosenhalli
T-1 4 to 8 .25
T-2 5 to 10 .40
TT-3 6 to 12 .60
TT-4 12 to 18 .75
18 to 24 .95
Thuja occ. nigra... TT-4 12 to 18 .75
18 to 24 .95

III—ADVANCED LINERS FROM
FIELD PLOTS:

Taxus c. capitata... TTT-6 10 to 15 1.50
15 to 18 1.75
Taxus intermedia... TTT-6 8 to 12 1.40
12 to 15 1.60
Taxus media browni... TTT-6 6 to 10 1.40
10 to 15 1.50
Taxus m. mooni-col... TTT-6 8 to 12 1.40
12 to 15 1.50
Thuja occ. boothii... TTT-5 8 to 12 1.25
12 to 15 1.40
15 to 18 1.60
Thuja occ. rosenhalli... TTT-5 6 to 10 1.25
10 to 15 1.50
15 to 18 1.75

You may order and send payment from
this ad.

BROOKDALE NURSERY
R.F.D. 2, Box 114 Kingston, Mass.
Member NENA. Phone Justice 5-2857.

CONFEROUS EVERGREEN SEEDLINGS

Per 100 Per 1000
Thuja occidentalis, 2-yr.,
2 to 4 ins. \$2.50 \$15.00
Abies balsamea, native, 2-yr.,
2 to 4 ins. 3.00 20.00
Pseudotsuga taxifolia glauca
(Rocky Mt.), 2-yr., 2 to 4 ins. 3.00 20.00
2-yr., 4 to 6 ins. 4.00 30.00
Abies concolor, 2-yr., 2 to 4 ins. 4.00 30.00
Juniperus virginiana, seeds
collected locally; 2-yr.,
2 to 4 ins. 3.50 25.00
Pinus nigra, 3-yr., 4 to 6 ins. 4.00 30.00
Pinus resinosa, 2-yr.,
2 to 4 ins. native 3.00 20.00
4 to 6 ins. native 4.00 30.00
Pinus sylvestris, 2-yr.,
2 to 4 ins. 2.50 15.00
4 to 6 ins. 3.50 25.00
Pinus mugo mughus, 3-yr.,
2 to 3 ins. 4.00 30.00
Picea mariana, 3-yr., 4 to 6 ins. 3.00 20.00
Picea pungens glauca, from
select seed, 2-yr., 2 to 4 ins. 3.00 20.00
3-yr., 4 to 6 ins. 4.00 30.00
Picea engelmanni, 3-yr.,
3 to 5 ins. 2.50 15.00
Picea excelsa, 2-yr.,
2 to 4 ins. 2.50 15.00
3-yr., 4 to 6 ins. 3.00 20.00
Picea canadensis alba, native;
2-yr., 2 to 4 ins. 2.50 15.00
3-yr., 4 to 6 ins. 3.50 25.00
Cash with order. F.O.B. Pembine, Wis.
Price list on request.
C. WILSON'S NURSERY, PEMBINE, WIS.

ORNAMENTAL LINERS

Per 100 Per 1000
Taxus, Adams, 1-yr., 2 1/2-in. pots \$18.00 \$170.00
Taxus, Adams, 2-yr., 2 1/2-in. pots 24.00 220.00
Taxus, Adams, 3-yr., TT 35.00 325.00
Taxus andersonii,
1-yr., 2 1/2-in. pots 18.00 170.00
2-yr., 2 1/2-in. pots 24.00 230.00
3-yr., TT 35.00 325.00
4-yr., TT 42.50 400.00
Taxus browni, 4-yr., 2 1/2-in. pots 18.00 170.00
Taxus browni, 2-yr., 2 1/2-in. pots 24.00 230.00
Taxus browni, 3-yr., TT 35.00 325.00
Taxus browni, 4-yr., TT 42.50 400.00
Taxus cuspidata,
1-yr., 2 1/2-in. pots 17.00 160.00
2-yr., 2 1/2-in. pots 22.00 210.00
3-yr., TT 35.00 325.00
4-yr., TT 42.00 400.00
5-yr., TTT 62.50 600.00
Taxus hicksi, 1-yr., 2 1/2-in. pots 18.00 170.00
Taxus hicksi, 2-yr., 2 1/2-in. pots 23.00 220.00
Taxus hicksi, 4-yr., TT 35.00 325.00
Taxus hicksi, 4-yr., TT 42.50 400.00
Taxus hicksi, 5-yr., TTT 62.50 600.00
Taxus hunnewelliana,
1-yr., 2 1/2-in. pots 18.00 170.00
2-yr., 2 1/2-in. pots 24.00 230.00
Thuja, globe, 1-yr., 2 1/2-in. pots 19.00 180.00
Thuja, globe, 2-yr., 2 1/2-in. pots 25.00 240.00
Ilex convexa, 2-yr., TT 27.50 250.00
Ilex hetzi, 2-yr., TT 27.50 250.00
Ilex rotundifolia, 2-yr., TT 27.50 250.00
Ilex rotundifolia, 4-yr., TT 62.50 600.00
Ilex stokesi, pat. No. 887,
1-yr., 2 1/2-in. pots 25.00 225.00
2-yr., 2 1/2-in. pots 27.50 250.00

EVERGREEN SEEDLINGS 100 1000
Scotch Pine,
2-yr. seedlings, 2 to 4 ins. \$2.00 \$10.00
2-yr. seedlings, 4 to 8 ins. 4.00 20.00
3-yr. seedlings, 8 to 14 ins. 4.00 20.00
3-yr. seedlings, 10 to 18 ins. 5.50 28.00
2-2 transplants, 5 to 10 ins. 10.00 50.00
2-2 transplants, 10 to 15 ins. 15.00 75.00
French-Scotch, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.50 22.50
Spanish-Scotch, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.50 22.50
Austrian Pine, 2-yr. seedlings,
1 to 3 ins. 2.00 10.00
3 to 6 ins. 4.00 20.00
Red Pine,
2-yr. seedlings, 2 to 4 ins. 3.00 15.00
3-yr. seedlings, 5 to 10 ins. 5.00 25.00
Mugho Pine, 3-yr. seedlings,
2 to 4 ins. 7.00 35.00
Douglas Fir, 3-yr. seedlings,
1 to 3 ins. 3.00 15.00
3 to 6 ins. 7.00 35.00
Colorado Blue Spruce,
3-yr. seedlings, 2 to 4 ins. 3.50 12.50
3-yr. seedlings, 3 to 6 ins. 7.00 35.00
White Spruce, 3-yr. seedlings,
3 to 6 ins. 2.50 12.50
Norway Spruce, 2-yr. seedlings,
2 to 4 ins. 2.00 10.00
4 to 8 ins. 4.00 20.00

TERMS: No charge for packing. 25 per
cent with order, balance C.O.D. 250 of a
variety at 1000 rate. Special quotations on
large orders or complete beds. Please write for
complete list.

HEASLEY BROS. NURSERY
Box 218, R. D. 1 Greensburg, Pa.
Phone LA 7-5532.

ROOTED CUTTINGS

Ready for shipment after April 1, 1960.
Each 100 rate, 10c; each 1000 rate, 8c.

JUNIPERUS
Chinensis glauca hetzi
Chinensis pfitzeriana
Chinensis pfitzeriana blue
Horizontalis
Sabina prostrata
Sabina tamariscifolia
Sabina Von Ehron
Squamata meyeri

ILEX Per 1000
Opaca Croonenburg, rooted cuttings \$180.00
Opaca Peace, rooted cuttings \$180.00

JUNIPERUS

POTTED LINERS
In 2 1/2-in. peat pots.

READY NOW! Each 100 1000

Chinensis pfitzeriana \$0.18 \$0.16
Chinensis glauca hetzi .18 .16
Horizontalis plumosa (Andorra)... .18 .16
Sabina Von Ehron .18 .16

PEACE & SON NURSERY

Siloam Springs, Ark.

CANADA HEMLOCK

COLLECTED SEEDLINGS Per 100 Per 1000

6 to 9 ins. \$5.00 \$30.00
9 to 12 ins. 8.00 70.00
12 to 18 ins. 15.00 120.00
18 to 24 ins. 30.00

NURSERY-GROWN TRANSPLANTS

4 to 8 ins. 2-2 20.00 180.00
8 to 12 ins. 2-2 25.00 240.00
12 to 18 ins. 2-2 60.00 600.00
18 to 24 ins. 2-3 80.00

Send for complete list of hardy native

Ferns, wild flowers, trees, shrubs and Ever-

greens.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

AMERICAN NURSERYMAN

SPRING OF 1960
ROOTED CUTTINGS

Per 100 Per 1000
Arborvitae, pyramidal, 6 to 10 ins. \$0.10 \$0.09
Arborvitae woodwardi, 6 to 8 ins. .10 .09
Juniper, Andorra, 6 to 8 ins. .11 .10
Juniper, Hetz, 6 to 8 ins. .10 .09
Juniper, Pfitzer, 6 to 8 ins. .11 .10
Juniper, Swedish, 6 to 8 ins. .10 .09
Taxus browni .11 .10
Taxus hicksi, 6 to 8 ins. .10 .09
Taxus cuspidata, 6 to 8 ins. .10 .09
Taxus capitata (leaders), 6 to 8 ins. .12 .12
Taxus densiformis, 6 to 8 ins. .11 .10
Taxus hatfieldi, 6 to 8 ins. .11 .10

1-YR. TRANSPLANTS

Taxus cuspidata .18 .16
Taxus hicksi .18 .16
Arborvitae woodwardi .16 .15

2-YR. TRANSPLANTS

Arborvitae woodwardi .23 .20
Taxus cuspidata .24 .24
Taxus hicksi .26 .24
Juniper, Irish .23 .20
Euonymus vegetus, large-leaved .15 .13
Euonymus vegetus, small-leaved .15 .13
Euonymus alatus .20 .18

3-YR. TRANSPLANTS

Taxus hicksi .34 .32
Taxus cuspidata .34 .32
Taxus hatfieldi .34 .32
Taxus densiformis .36 .34

2-YR. SEEDLINGS

Colorado Blue Spruce .08 .03
Taxus capitata .12 .10

GRAFTS

Koster Blue Spruce \$1.25 each
Moerheim Blue Spruce 1.25 each
Swartz Blue Spruce 1.25 each

GRAFTS

Per 100 Per 1000
Juniper, Burk \$0.55 \$0.50
Juniper, Canaert .55 .50
Juniper, Dundee .55 .50
Juniper, Ketelee .55 .50
Juniper, Hillspire .55 .50

150 of variety at 100 rate.
300 of variety at 1000 rate.

DRAKES NURSERIES

G-4342 Branch Rd. Flint 6, Mich.

EVERGREENS

2-yr. field transplant liners: Taxus,
browni, hicksi, cuspidata and hatfieldi, 30c
each per 100.

Each, 10 100
Taxus browni, B&B, 12 to 15 ins. \$3.25 \$3.00
15 to 18 ins. 4.00 3.75
18 to 24 ins. 5.00 4.75

Taxus, hicksi and cuspidata,
B&B, 15 to 18 ins. 3.00 2.75
18 to 24 ins. 3.50 3.25
24 to 30 ins. 4.50 4.00

Larger sizes available. Special prices by
block or volume.

SELECTED HARDY

HYBRID EVERGREEN AZALEAS

Our varieties are selected from the most
hardy varieties available. No orders accepted
after May 1, on our 2 1/2-in. pot plants, from
our greenhouses.

Each, 10 100 1000

2 1/2-in. pots (from green-
house) \$0.30 \$0.25 \$0.20

2-yr., field-grown, br. .65 .60 .50
9 to 12 ins. br. 1.50 1.25 1.10
9 ins. B&B 1.75 1.50 1.35

12 ins. B&B 2.25 2.00 . .
15 ins. B&B 2.50 2.25 . .
18 ins. B&B 3.25 2.50 . .
24 ins. B&B 3.75 3.50 . .

30 ins. B&B 4.50 4.00 . .

Fedora, large, soft pink, dwarf

No. 97 Gable, deep red, dwarf

Corset (526), large orchid blooms, dwarf

Herbert (476), dark crimson-purple, hose-in-

hose, dwarf

Mikado, bright red, upright

Othello, brick or salmon-red, upright

Louise Gable, late blooming coral-pink Rose-

bud, dwarf

No. 1276, soft pink, early blooming, dwarf

Ledifolia alba, white large flower, speckled

throat, dwarf

Write for wholesale price list on other

stock. Priced F.O.B. nursery.

RESTHAVEN NURSERIES

Louis Petrus, Mgr.

Route 20 Perry, O.

FROM OPEN FRAMES AND FIELD ROWS

100,000 Ilex burfordi, rooted cuttings .4c

100,000 Ilex rotundifolia, rooted cuttings .4c

100,000 Wax Ligustrum (lucidum),

rooted cuttings .2 1/2 c

20,000 Euonymus patens, 4 to 6 ins. .3c

20,000 Euonymus patens, 2-yr. field .8c

10,000 Abelia grandiflora, 6 to 12 ins.,

field .5c

E. F. DuBOISE NURSERY

Huntville, Ala.

HEAVY LINERS FROM FIELD ROWS

100 1000
Andorra Juniper, 8 to 10, T... \$15.00 \$125.00

Globe Arborvitae, woodwardi... 30.00 295.00

Pfitzer Juniper, 10 to 15, TTT... 35.00 300.00

Pyramidal Arborvitae, 12 to 15,
TTT... 35.00 300.00

Cash with order, please. 500 at 1000 rate.

Free packing. Phone 395.

WHERRY'S NURSERIES, ST. MARYS, W. VA.

EVERGREEN LINERS

1 1/4-IN. POTTED LINERS	Each, 100	1000
Juniper, Armstrong, 2-yr.	\$0.22 1/2	\$0.20
Juniper, Pfitzer, 2-yr.	.21	.18 1/2
Juniper, Blue Pfitzer, 2-yr.	.21	.18 1/2
Arb., Berckmans' Biota, 2-yr.	.19	.16 1/2
Taxus, Adams, 2-yr.	.17 1/2	.15
Taxus andersoni, 2-yr.	.19	.16 1/2
Taxus cuspidata, 2-yr.	.19	.16 1/2
Taxus hickel, 2-yr.	.19	.16 1/2
Taxus hatfieldi, 2-yr.	.19	.16 1/2
Taxus media, 2-yr.	.19	.16 1/2
Taxus media No. 8, 2-yr.	.21	.18

FIELD-GROWN LINERS, from pots and transplanted to nursery row.	Each, 100	1000
Juniper, Armstrong, 2-yr.	.35	.30
Juniper, Pfitzer, 1-yr.	.27 1/2	.22 1/2
Juniper, Blue Pfitzer, 1-yr.	.27 1/2	.22 1/2
Arb., Berckmans' Biota, 2-yr.	.30	.25
Arb., Woodward Globe, 1-yr.	.27 1/2	.22 1/2

ROOTED CUTTINGS, heavy rooted cuttings in lath house, ready now.	Each, 100	1000
Juniper, Pfitzer, 2-yr.	.12	.11
Taxus, Adams, 2-yr.	.11	.10
Taxus browni, 2-yr.	.10	.09
Taxus cuspidata, 2-yr.	.10	.09
Taxus hickel, 2-yr.	.10	.09
Taxus media, 2-yr.	.11	.10

TERMS: Cash with order, free packing.

300 plants of a variety at 1000 rate.

Special quotations on large quantities.

VOGE NURSERY

New Lebanon, O.

CHRISTMAS TREE PLANTING STOCK.

Per 100 Per 1000

SCOTCH PINE, French strain, deep green.

2-yr. seedlings, 2 to 4 ins. 2.00 \$ 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

2-2 transplants, 8 to 14 ins. 15.00 75.00

SCOTCH PINE, Spanish strain, excellent cuttings in lath house, ready now.

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

2-2 transplants, 8 to 14 ins. 15.00 75.00

AMERICAN RED PINE

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

AUSTRIAN PINE

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

SITKA SPRUCE

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

2-2 transplants, 8 to 14 ins. 15.00 75.00

WHITE SPRUCE

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

2-2 transplants, 8 to 14 ins. 15.00 75.00

NORWAY SPRUCE

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

DOUGLAS FIR

2-yr. seedlings, 2 to 4 ins. 2.00 10.00

2-yr. seedlings, 4 to 8 ins. 5.00 25.00

2-yr. seedlings, 15 to 20 ins. 6.00 30.00

2-2 transplants, 8 to 14 ins. 15.00 75.00

All 3-yr. stock is root-pruned.

Order direct or write for complete list.

CLAIR JOHNSTON & SON NURSERIES

Box 148 Creekside, Pa.

EVERGREENS

SEEDLINGS AND TRANSPLANTS

Per 100 Per 1000

NORWAY SPRUCE

4-yr. transplants, 5 to 8 ins. \$45.00

4-yr. transplants, 9 to 14 ins. 60.00

WHITE SPRUCE

4-yr. transplants, 5 to 8 ins. 40.00

4-yr. transplants, 9 to 14 ins. 55.00

COLORADO BLUE SPRUCE

2-yr. seedlings, 3 to 6 ins. 22.00

4-yr. transplants, 4 to 6 ins. 60.00

4-yr. transplants, 7 to 10 ins. 70.00

BLACK HILLS SPRUCE

4-yr. transplants, 4 to 6 ins. 55.00

4-yr. transplants, 7 to 10 ins. 65.00

BLUE DOUGLAS FIR

4-yr. transplants, 4 to 6 ins. 45.00

4-yr. transplants, 7 to 12 ins. 60.00

GRAY DOUGLAS FIR

4-yr. transplants, 6 to 10 ins. 65.00

4-yr. transplants, 11 to 16 ins. 80.00

SCOTCH PINE

French D'Auvergne, 2-yr. seedlings, 6 to 8 ins. 18.00

Austrian Hills, 4-yr. transplants, 9 to 12 ins. 40.00

4-yr. transplants, 12 to 16 ins. 50.00

AUSTRIAN PINE

4-yr. transplants, 6 to 8 ins. 45.00

4-yr. transplants, 8 to 12 ins. 55.00

5-yr. transplants, 14 to 20 ins. 75.00

Satisfaction guaranteed.

Please visit us.

W. S. YOE NURSERIES

Lake St. Madison, O.

SCOTCH PINE SEEDLINGS

Per 100 Per 1000

French, 4-yr., 12 to 20 ins. \$40.00 \$25.00

French, Spanish, 3-yr., 6 to 12 ins. 3.00 20.00

Austrian Hill, 6 to 14 ins. 3.00 20.00

French, Spanish, 2-yr., 3 to 6 ins. 2.00 15.00

Colo. Blue Spruce, 3-yr., 4 to 8 ins. 4.50 35.00

2 to 4 ins. 3.00 20.00

NOVAK'S NURSERY, HOUTZDALE, PA.

EVERGREENS

ROOTED CUTTINGS	Each, 100	1000
Arb., American, dark green, 6 to 8 ins.	\$0.10	\$0.09
Arb., American, pyramidal, 6 to 8 ins.	.10	.09
Arb., American, globe, 4 to 8 ins.	.10	.09
Juniper, Hetz, 6 to 8 ins.	.10	.09
Juniper, Pfitzer, 6 to 8 ins.	.10	.09
Juniper, Savin, 6 to 8 ins.	.10	.09
Juniper, Von Ehron, 6 to 8 ins.	.10	.09
Juniper, Andorra, 6 to 8 ins.	.10	.09
Taxus cuspidata, 6 to 8 ins.	.09	.08
Taxus hunnewelliana, 6 to 8 ins.	.10	.09
Taxus hickel, 6 to 8 ins.	.10	.09
Taxus capitata (leaders), 6 to 8 ins.	.13	.12

2-YR. TRANSPLANTS	Each, 100	1000
Juniper, Andorra	.22	.20
Juniper, Savin	.22	.20
Juniper, Von Ehron	.22	.20
Juniper, Hetz	.22	.20
Arb., American, globe	.22	.20
Arb., American, dark green	.22	.20
Taxus hickel	.22	.20
Taxus cuspidata	.22	.20
Taxus capitata	.32	.30

1-YR. TRANSPLANTS	Each, 100	1000
Taxus cuspidata	.18	.16
Juniperus sabina	.18	.16

250 per variety at 1000 rate. Spring delivery.

3 per cent discount, cash with order.

Cash with order earns free packing.

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

ROOTED CUTTINGS AND LINERS

Spring 1960

Arb., American, 6 to 8 ins. \$0.10 \$0.09

Arb., American, woodwardi, 6 to 8 ins.10 .09

Juniper, Andorra, 6 to 8 ins.10 .09

Juniperus hetzi glaucus, 6 to 8 ins.09 .08

Juniper, Irish, 6 to 8 ins.09 .08

Taxus, Anderson, 6 to 8 ins.11 .10

Taxus browni, 6 to 8 ins.11 .10

Taxus cuspidata, 6 to 8 ins.09 .08

Taxus capitata (leaders), 6 to 8 ins.13 .12

Taxus hatfieldi, 6 to 8 ins.11 .10

Taxus hickel, 6 to 8 ins.09 .08

Taxus intermedia, 6 to 8 ins.11 .10

Taxus wardi, 6 to 8 ins.11 .10

1-YR. TRANSPLANTS

Juniper, Irish, 6 to 8 ins.15 .14

Taxus cuspidata, 6 to 8 ins.18 .16

2-YR. TRANSPLANTS

Juniper, Irish, 6 to 8 ins.22 .20

Taxus cuspidata, 6 to 8 ins.25 .24

Taxus cuspidata nana, 6 to 8 ins.26 .24

3-YR. TRANSPLANTS

Juniper, Hetz, 6 to 8 ins.32 .30

Juniper, Irish, 6 to 8 ins.28 .26

Taxus cuspidata, 6 to 8 ins.33 .31

Taxus hickel, 6 to 8 ins.34 .32

Taxus wardi, 6 to 8 ins.36 .34

Cash with order, 3 per cent discount, 1/2 deposit with all orders, balance at shipping time. 300 of a variety at 1000 rate.

NEIDEL'S NURSERY

216 Park Ave. Oil City, Pa.

EVERGREEN LINERS

(Seedlings and transplants.)

DOUGLAS FIR (Montana)

2-yr. seedlings, 3 to 5 ins. \$6.00 \$30.00

3-yr. transplants, 4 to 6 ins. 7.50 38.00

4-yr. transplants, 7 to 10 ins. 9.00 45.00

WHITE FIR (grandis)

2-yr. seedlings, 4 to 6 ins. 6.00 30.00

3-yr. transplants, 6 to 8 ins. 8.00 40.00

WHITE FIR (concolor)

2-yr. seedlings, 6 to 8 ins. 7.00 36.00

3-yr. transplants, 8 to 12 ins. 9.00 45.00

COLORADO BLUE SPRUCE

2-yr. seedlings, 3 to 4 ins. 7.00 35.00

3-yr. transplants, 4 to 6 ins. 8.00 40.00

4-yr. transplants, 6 to 8 ins. 10.00 50.00

SCOTS (SCOTCH) PINE

2-yr. seedlings, 4 to 6 ins. 5.00 25.00

2-yr. transplants, 6 to 8 ins. 6.00 30.00

3-yr. transplants, 8 to 12 ins. 8.00 40.00

AUSTRIAN PINE

2-yr. seedlings, 3 to 5 ins. 5.00 25.00

3-yr. transplants, 6 to 10 ins. 8.00 40.00

Pull line of conifer seedlings and transplants. Write for free catalog and price list.

Nurseries in Montana and Washington State.

J. HOPKINS CO.

Box 3805 Main 3-0934 Seattle 24, Wash.

Scotch Pine seedlings, French Green, German, Scotch Highland.

2-yr., 2 to 4 ins. \$3.00 \$10.00

2-yr., 3 to 6 ins. 4.00 12.00

3-yr., 6 to 14 ins. 5.00 15.00

Colorado Blue Spruce, 3 to 6 ins. 6.00 25.00

White Spruce, 3 to 6 ins. 6.00 25.00

Douglas Fir, 3 to 6 ins. 6.00 25.00

Cash, or 25 per cent down and balance before shipment. We ship free.

West Olive Nursery & Evergreens, R. 1, West Olive, Mich.

EVERGREEN LINERS

Heavy 2-yr., 2 1/4-in. potted liners, individually sheared last summer.

Per 100 Per 1000

Pfitzer Juniper \$20.00 \$180.00

Hetz Juniper 20.00 180.00

Andorra Juniper 20.00 180.00

Cash with order, please.

DIEHL'S NURSERY

R. R. 1, Box 150 Columbia, Ill.

EVERGREEN SEEDLINGS

2-YR.-OLD	100	1000
Douglas Fir, 4 to 8 ins.	\$5.00	\$25.00
Scotch Pine, 6 to 10 ins.	5.00	20.00
3-YR.-OLD	100	1000
Douglas Fir, 5 to 10 ins.	7.00	35.00
Concolor Fir, 4 to 8 ins.	12.00	55.00
Austrian Pine, 10 to 14 ins.	8.50	42.50
Jap. Black Pine, 10 to 18 ins.	12.00	60.00
Scotch-French, 10 to 15 ins.	7.50	30.00
Scotch-Spanish, 10 to 15 ins.	7.50	30.00
Black Hills Spruce, 3 to 6 ins.	6.50	25.00
Col. Blue Spruce, 4 to 8 ins.	8.00	40.00
American Arborvitae, 3 to 6 ins.	5.00	22.50
4 to 8 ins.	7.00	32.50
4-YR.-OLD	100	1000
American Arborvitae, 6 to 14 ins.	8.00	38.00
14 to 20 ins.	15.00	75.00
Col. Blue Spruce, 6 to 12 ins.	10.00	50.00
5-yr., 12 to 20 ins.	20.00	

EVERGREENS, Liners—Continued

BURN-RESISTANT TAXUS

For over 30 yrs. we have been selecting and testing better plant material for our section. Among these selections are some Taxus that have not burned in some of our very worst years.

This year we are offering a limited amount of stock in rooted cuttings, at 20¢ each. Spring delivery. Cash with order.

This year we will also have some rare Pine grafts and possibly a few Blue Spruce to spare.

Send for list of other rooted cuttings and potted Evergreen liners.

TRAUTMAN NURSERIES
R. 1, Box 379 Franksville, Wis.

QUALITY LINERS

	Per 100
Douglas Fir (blue), 5 to 12 ins., tr.....	\$18.00
White Pine, 6 to 14 ins., tr.....	17.50
Japanese Boxwood, 6 to 8 ins., tr.....	17.50
Colorado Blue Spruce, 5 to 10 ins., tr....	20.00
Canadian Hemlock, 5 to 10 ins., tr.....	20.00
Enkianthus camp., 8 to 12 ins., tr.....	25.00
Ligustrum lucidum, 8 to 15 ins., tr.....	25.00
Taxus (best varieties), 6 to 8 ins., tr....	27.50
Asalea mucronulatum, 6 to 10 ins., tr....	35.00
Pink Fig. Dogwood, 10 to 15 ins., tr....	75.00

Send for new spring list.

POSSUM HOLLOW NURSERIES
6909 Henley St. Philadelphia 19, Pa.

PINE, SPRUCE SEEDLINGS

	100	1000
Scotch Pine, 3-yr., 9 to 14 ins. \$ 6.00	\$30.00	
(French and Spanish strains)		
Colo. Blue Spruce, 4-yr.,		
6 to 12 ins.	8.00	50.00
Norway Spruce, 3-yr., 6 to 12 ins.	6.00	35.00
Juniperus glauca hetzi, 3-yr.,		
6 to 12 ins.	25.00	
Spreading Jap. Yew, 3-yr.,		
5 to 10 ins.	30.00	

Write for complete list.

PAINT CREEK NURSERIES
R. D. 1 Shippensburg, Pa.

TAXUS AND JUNIPER LINERS

	Per 100
Taxus thayerae	\$30.00
Taxus henryi	30.00
Taxus F&F compacta	30.00
Taxus hicksii	30.00
Juniperus hetszi	30.00
Juniper, Andorra	30.00

Cuttings from sand, \$85.00 per 1000.
Taxus, thayerae, henryi, hicksii, F&F compacta and our own new compacta erecta, a dark needled upright form.

KERSBERGEN NURSERIES
966 Central Ave. New Providence, N. J.

SPECIAL SPRING PRICE LIST

The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings. 2-yr., pot-grown stock, 7 to 9 ins., sheared, 20¢ to 26¢ each, per 1000 rate.

Heavy rooted cuttings, 1-yr.-old, 8¢ to 10¢, per 1000 rate.
NOTE: Write for price list with full line of potted stock and rooted cuttings. Bargain "get acquainted" offer on 250 2-yr. pot plants or 250 rooted cuttings. Special prices on large quantities. Samples free on request. Call collect TIPP CITY, NO 7-6392.

MIAMI NURSERY CO., TIPP CITY, O.

EVERGREENS, ROOTED CUTTINGS

	100	1000
Taxus hicksii	\$ 9.00	\$85.00
Taxus brownii	9.00	85.00
Taxus densiformis	9.00	85.00
Juniperus chin. pfitzeriana, blue, 10.00	95.00	
Juniperus chin. hetzi	10.00	95.00
Thuja occ. compacta	10.00	95.00
Ilex hetzi	7.50	70.00
Ilex convexa	7.50	70.00

Cuttings ready about May 1.

MAHLSTEDE BROS.
5323-5351 Wilson Mills Rd. Cleveland 24, O.

ROOTED CUTTINGS

Ilex convexa	\$0.05
Ilex microphylla .....	.05
Ilex convexa, 2 1/4-in. pots .....	.15
Ilex rotundifolia, 2 1/4-in. pots .....	.15

1-YR. FIELD-GROWN LINERS
Andorra Juniper, bare-root10 || Hetz Juniper, bare-root | .10 |
| Von Ehron Juniper, bare-root | .10 |
| Savin Juniper, bare-root | .10 |

STRAIN & SONS NURSERY
Route 7 Athens, Ala.

EVERGREEN LINERS

Picea pungens glauca kosteriana.
Picea pungens glauca moerhousii.
Pot-grown grafts, May shipment.
\$110.00 per 100, \$500.00 per 500.

J. BLAAUW & CO., LINCROFT, N. J.

HARDY EVERGREEN CHRISTMAS TREES
Will grow on your poorest soil.
Scotch Pine, 8 to 10 ins., \$10.00 per 1000.

Write for price list.

HABE'S NURSERY, LEECHBURG, PA.

Junipers, strong rooted cuttings of many varieties, rooted in soil since spring 1959.
Please see complete list on page 99.
Templeton, Phytotektor, Winchester, Tenn.

EVERGREEN LINERS

	Per 100
1600 Taxus hicksii, 2-yr., beds	\$26.00
1300 Taxus int. Sebian, 2-yr., beds	26.00
450 Taxus, Adams, 3-yr., beds	26.00
250 Juniperus pfitzeriana glauca,	
2 1/4-in. pots	25.00
450 Juniperus hetzi, 2 1/4-in. pots	25.00
150 Juniperus pfitzeriana comp.,	
2 1/4-in. pots	25.00
125 Ligustrum Vicary, 2-yr., beds,	
8 to 12 ins.	22.00

JOHN BOS NURSERY, CLYDE, O.

EVERGREENS
FOR BROADLEAF AND
CONIFEROUS EVERGREEN LINERS,

Please see our display ad on
pages 32 and 33.

CARTWRIGHT NURSERIES
Collierville, Tenn.

SEEDLINGS AND TRANSPLANTS.

	100	1000
2-yr. seedlings		
Scotch Pine (French), 4 to 8 ins. \$5.00	\$25.00	
Scotch Pine (Spanish), 3 to 8 ins. 4.00	20.00	
Blue Douglas Fir, 3 to 6 ins.	5.00	25.00
Norway Spruce, 3 to 6 ins.	4.00	20.00
3-yr. seedlings		
Scotch Pine (Austrian), 8 to 14 . 6.00	30.00	
Blue Douglas Fir, 4 to 8 ins.	6.00	30.00

Cash with order, packing free.

All priced F.O.B. Angola, N. Y.

ARTHUR CASH NURSERY,

Angola, N. Y.

ARBORVITAE

2-yr. transplants, field beds, heavy.
5000 Woodward globe 25c || 5000 pyramidal | 25c |

100 lots and up.

See our ads under Evergreens, B&B
and Shrubs and Trees.

NAGLE'S NURSERY
R. 2, Box 267 Decatur, Mich.

JUNIPER GRAFTS

Spring 1960 delivery.
VARIETIES: Burkii, canariensis, columnaris
(blue), Dundee, glauca, keteleeri and various
Pfitzer. Virginiana understock used.
45¢ each. F.O.B. Louisville, Ky.
Packing and boxing at cost.

HALEBERG NURSERY, INC.
R. 2, Box 119 Anchorage, Ky.

We are liquidating foreign strains of
Scotch Pine seedlings. Austrian Hills, Polish,
German, Riga, etc., at \$15.00 per 1000. 3-0
bed-run (trade only). Order direct from this
ad. No billing. N. C.O.D. Enclose \$2.00 per
1000 postal charges.

For prices of our exclusive bed-grown,
short needle, non-yellowing Scotch strain,
write now. Supply is limited.
Whitmer Nursery, Cooperstown, Pa.

DWARF MAHONIA

(Mahonia repens)
A broad-leaved creeping evergreen that
grows in driest of locations in full sun, to a
maximum of 15 ins. USDA approved.
2 to 4-in. seedlings, \$11.00 per 100,
\$100.00 per 1000.

Postage paid if payment with order.

WESTERN EVERGREENS
Route 1 Golden, Colo.

NANDINAS

20,000 2-yr., 8 to 10 ins. grown outside,
just right for field or cans, \$5.00 per 100,
\$40.00 per 1000. Beautiful plants. Cash with
order, please.

BUCHANAN'S NURSERY
5108 Western Blvd. Raleigh, N. C.

COLORADO BLUE SPRUCE
4-yr. transplants, 4 to 8 ins., \$6.00 per
100; 4-yr. seedlings, 5 to 8 ins., \$3.00 per
100; \$28.00 per 1000; 3-yr., 3 to 6 ins., \$2.50
per 100, \$25.00 per 1000.

Dwarf Mugo Pine, 3-yr. seedlings, 2 to 5
ins., \$5.00 per 100. Norway Spruce, 5-yr.
transpl., 5 to 10 ins., \$6.00; 1000, \$50.00.
HENRY FISCHER, ROTHBURY, MICH.

SPECIAL
COLORADO BLUE SPRUCE

3-yr. seedlings, 4 to 8 ins., \$5.00 per 100,
\$30.00 per 1000. Grown from select seed of
our own collection. Offer expires April 1.
No packing charges. Freight paid for payment
with order.

WESTERN EVERGREENS, INC.,
Route 1 Golden, Colo.

PICEA OMORIKI
(Siberian Spruce)
The most beautiful, graceful and hardiest
of all Spruces. 2-yr. seedlings, 8 to 12 ins.,
\$25.00 per 100.

PARMENTIER'S ROSES
Bayport, L. I., N. Y.
Phone Bayport 8-0811.

EVERGREEN LINERS
Rooted cuttings, 1 and 2-yr. bedded stock
of Taxus, Junipers and Arborvitae.
Write for detailed list.
J. BLAAUW & CO., LINCROFT, N. J.

SCOTCH PINE SEEDLINGS
2-yr.-old, French strain, well-rooted,
100, \$3.50; 1000, \$13.00, prepaid.
MELLINGER'S NURSERY
Box AN North Lima, O.

TAXUS CAPITATA
5-yr. transplanted seedlings, 9 to 15 ins.,
\$50.00 per 100, \$450.00 per 1000.
KLUI'S NURSERIES, Pompton Plains, N. J.

CHRISTMAS TREE SEEDLINGS
10 to 14 ins., French and Spanish strains of
Scotch, \$15.00 per 1000.
BERKEY'S NURSERY, Spartansburg, Pa.

Berkmann's Golden Arborvitae, 6 ins., cut-
tings rooted in soil since spring 1959, 10¢.
Please see complete list on page 99.
Templeton, Phytotektor, Winchester, Tenn.

Sequoia gigantea, 2-yr., 3 to 6 ins., \$30.00
per 1000. Arizona Cypress, same size, \$25.00.
F.O.B. Fulton V. Smith Co., Sheridan, Ore.

Mahonia bealei, strong 1-yr. seedlings, 6¢.
Please see complete list on page 99.
Templeton, Phytotektor, Winchester, Tenn.

EVERGREENS, B&B

EVERGREENS, B&B

	Each, 100
Camellia japonica Greensboro Red	
18 to 24 ins.	\$3.00
Ligustrum, lucidum, recurvifolium	
or nobilia, heavy, field	
18 to 24 ins.	1.75
24 to 30 ins.	2.00
30 to 36 ins.	2.25
Ilex cornuta, heavy, field	
2 1/2 to 3 ft.	3.75
3 to 3 1/2 ft.	6.50
3 1/2 to 4 ft.	6.50
Ilex crenata, heavy	
2 to 2 1/2 ft.	2.50
2 1/2 to 3 ft.	2.75
3 to 3 1/2 ft.	3.50
Ilex crenata convexa, heavy	
18 to 24 ins.	2.25
24 to 30 ins.	3.00
30 to 36 ins.	3.75
3 to 3 1/2 ft.	4.50
3 1/2 to 4 ft.	6.50
Ilex crenata globosa, heavy	
15 to 18 ins.	2.00
18 to 24 ins.	2.25
24 to 30 ins.	3.00
2 1/2 to 3 ft.	3.75
3 to 3 1/2 ft.	4.50
Ilex crenata microphylla, heavy	
18 to 24 ins.	2.00
2 to 2 1/2 ft.	2.25
2 1/2 to 3 ft.	3.00
Ilex crenata prostrata, heavy	
18 to 24 ins.	2.25
24 to 30 ins.	3.00
2 1/2 to 3 ft.	3.75
Ilex crenata rotundifolia, heavy	
15 to 18 ins.	1.75
18 to 24 ins.	2.25
24 to 30 ins.	3.00
Viburnum rhytidophyllum, heavy	
2 1/2 to 3 ft.	2.50
3 to 3 1/2 ft.	3.00
3 1/2 to 4 ft.	3.50
4 to 5 ft.	4.00
5 to 6 ft.	5.00

Trade list includes many others, ask for it.
LINDLEY NURSERIES, INC.
Box H Greensboro, N. C.

ABIES NOBILIS (NOBLE FIR)

Supreme quality and fullness.
These trees are a rich dark green and
twice transplanted, 18 to 24 ins., B&B, \$2.00.

DON SMITH'S TREE FARM
R. 2, Box 155A Estacada, Ore.

Phone Temple 1-2405

NORWAY SPRUCE
Well-sheared, full, heavy trees, good color.

	Each, 1-30	30 up
2 to 3 ft., B&B	\$2.75	\$2.50
3 to 4 ft., B&B	3.75	3.50
4 to 5 ft., B&B	4.75	4.50

Row-run and you dig your own, \$2.50 each.

PAUL'S NURSERY
R. D. 3 Shelby, O.

EVERGREENS, B&B

1700 Hetz Juniper, 15 to 18 ins.	\$1.75
2200 Hetz Juniper, 18 to 24 ins.	2.00
2900 Hetz Juniper, 2 to 2 1/2 ft.	2.50

These are compact. All real beauties.
Phone Greensboro, 395.

WHERRY'S NURSERIES, ST. MARYS, W. VA.

EVERGREENS, B&B

Thuja globosa, 12 to 15 ins.	\$1.50
Thuja nigra, 2 1/2 to 3 ft.	2.50
Thuja pyramidalis, 2 1/2 to 3 ft.	2.50
Thuja warrenii, 15 to 24 ins.	1.70

IMPERIAL NURSERIES
P. O. Box 1000 East Hartford, Conn.

EVERGREEN BARBERIES

Beautiful full specimens of the improved Beltsville selection of Berberis julianae nana, growing at 2900 ft. with full leaves and color.

700 Berberis julianae nana, 30 ins.	\$2.60
700 Berberis julianae nana, 3 1/2 ft.	3.35
250 Berberis julianae nana, 3 1/2 ft.	4.10
Medium grade, 10 to 12 ins. ....	.90
Medium grade, 12 to 15 ins.	1.15

HEMLOCKS

Heavy, sheared, high altitude stock.

Tsuga canadensis, 2 to 2 1/2 ft.	\$3.00
Tsuga canadensis, 2 1/2 to 3 ft.	3.50
Tsuga canadensis, 3 to 3 1/2 ft.	4.25
Tsuga canadensis, 3 1/2 to 4 ft.	4.75
Tsuga canadensis, 4 to 4 1/2 ft.	6.00
Tsuga caroliniana, 2 to 2 1/2 ft.	3.75
Tsuga caroliniana, 2 1/2 to 3 ft.	4.25
Tsuga caroliniana, 3 to 3 1/2 ft.	5.25

LEUCOTHOE

Nursery-grown.

350 Leucothoe catesbaei, 24 to 30 ins.	\$2.50
350 Leucothoe catesbaei, 30 to 36 ins.	3.00

LAURELS (SCHIPKAENSIS)
Properly sheared specimens.

20 strap-leaved, spreading, 2 1/2 to 3 ft.	\$4.00
65 strap-leaved, spreading, 3 to 4 ft.	5.75
75 strap-leaved, spreading, 4 to 5 ft.	8.00

ZABELIANA (VASE SHAPED)

100 18 to 24 ins.	2.75
100 24 to 30 ins.	3.25
100 4 to 5 ft.	8.00
55 to 6 ft.	10.00

ILEX

Heavy specimens.

Ilex rotundifolia, 12 to 15 ins.	\$1.75
Ilex rotundifolia, 15 to 18 ins.	2.25
Ilex rotundifolia, 18 to 24 ins.	2.75
Ilex rotundifolia, 24 to 30 ins.	3.60
Ilex rotundifolia, 2 1/2 to 3 ft.	4.75
Ilex bullata convexa, 10 to 12 ins.	1.40
Ilex bullata convexa, 12 to 15 ins.	2.25
Ilex bullata convexa, 15 to 18 ins.	2.75
Ilex crenata hetzi, 50, 24 to 30 ins.	5.00
Ilex crenata hetzi, 30, 30 to 36 ins.	6.50

HAYNESFIELD NURSERIES
Route 4 Bristol, Tenn.
(On the Virginia border in the Appalachian Highlands.)

AZALEAS

Amoena, Fedora, Good Times, Herbert, Hinoedgiri, Hino-Crimson, Louise Gable, Mother's Day, Othello, Palestrina, Poukhanense, Rosebud, Snow.

AZALEA GHENT

In a variety of brilliant colors.

RHODODENDRONS

Our propagation, roseum elegans.

IMPORTED

America, Caracacus, catawbiense album, Cunningham White, Dr. Dresselhuys, Dr. V. H. Rutgers, Lee's Dark Purple, Mme. Carvalho, Nova Zembla, Prometheus, Van Woerden Poelman, John Walter.

FLOWERING SHRUBS

Abelias, Caryopteris, Cherry Laurel, Forsythias, Pieris japonica, Pieris variegata, Viburnum carlesii, Weigela.

MAGNOLIAS

Soulangiana, soulangiana nigra, halleana stellata, glauca.

TREES

Cornus florida (Dogwood), pink and white; Franklinia, Acer Faassen's Black, Acer leopoldi, Acer drummondii, Acer worelyi, Acer palmatum, Norway Spruce, White Pine, Hemlocks.

TAXUS (YEW)

Hatfield, hicksii, hunnewelliana, repandens (spreading), nana.

ILEX (HOLLY)

Crenata convexa, helleri, microphylla, rotundifolia, Cornuta, cornuta burfordi, opaca.

EVERGREENS

Juniperus, stricta, hetzi, hibernica, pfitzeriana, Chamaecyparis allumi, Euonymus, variegatus, japonicus, patens, compactus, Thuja, globosa and pyramidalis. All in various commercial sizes.

Deliveries only at nursery. Catalog giving prices and sizes on request.

WINDY ACRES NURSERY

Chapel Heights Rd. Pitman, N. J.
500 yards off route 47

EVERGREENS, B&B

Colo. Blue Spruce, sheared, 2 to 2 1/2 ft.	\$3.00
2 1/2 to 3 ft.	3.65
Norway and White Spruce, sheared, 2 to 2 1/2 ft.	2.15
White Spruce, sheared, 3 to 4 ft.	3.00
Douglas Fir, sheared, 2 to 2 1/2 ft.	2.35
4 to 5 ft.	4.50
Scotch Pine, sheared, 2 to 2 1/2 ft.	2.35
Sweet Gum, good heads, 1 1/2 to 1 3/4 ins.	3.50
Red Maple, good heads, 1 1/2 to 2 ins.	4.00
2 to 2 1/2 ins.	5.00

W. V. GRIFFIN

8 Elizabeth Ave. East Brunswick, N. J.
(Near Herberts Corner) Phone CL 7-2484

EVERGREENS, B&B

Arborvitae, Elmer, 3 to 4 ft.	\$3.50
Columbia (white tip), 2 to 3 ft.	3.00
Juniper, Irish, 3 to 4 ft.	3.00
Juniper, Andorra, 3 to 4 ft.	2.50
Juniper, Hetz, 4 to 5 ft.	5.00
Dwarf Alberta Spruce, 2-yr., 3-in. pots . . .	.50
Taxus, B&B, in variety. No shipping.	

PATTON NURSERY
Graceland Rd. New Castle, Pa.

LANDSCAPE SPECIMENS

Compact, properly trimmed.

Juniperus glauca hetzi, 2 1/2 to 3 ft.	\$5.00
3 to 3 1/2 ft.	6.00
3 1/2 to 4 ft.	7.00
Juniperus horiz. plumosa, 3 1/2 to 4 ft.	6.00
4 to 5 ft.	7.00
5 to 6 ft.	8.00
Picea pungens, 2 to 2 1/2 ft.	2.50
2 1/2 to 3 ft.	3.00
3 to 3 1/2 ft.	3.50
3 1/2 to 4 ft.	4.00
4 to 5 ft.	5.00
Taxus c. nana-brevifolia, 12 to 15 ins.	2.75
15 to 18 ins.	3.25
Taxus media browni, 12 to 15 ins.	2.75
15 to 18 ins.	3.25
Taxus m. mooni-col., 12 to 15 ins.	2.50
15 to 18 ins.	3.00
Thuja occ. nigra, 3 to 4 ft.	3.00
4 to 5 ft.	4.00
5 to 6 ft.	5.00
Tsuga canadensis, 2 to 2 1/2 ft.	3.00
2 1/2 to 3 ft.	3.50
3 to 3 1/2 ft.	4.00
3 1/2 to 4 ft.	5.00

F.O.B. nursery. No shipping. Cash on delivery.

BROOKDALE NURSERY

R.F.D. 2, Box 114 Kingston, Mass.
Member NENA. Phone Justice 5-2857.

SHEARED STOCK, GOOD BALL

Blota aurea nana, 12 to 15 ins.	\$0.80
Juniperus hibernica, 18 to 24 ins.	1.00
Juniperus excelsa stricta, 15 to 18 ins.	1.00
Taxus cuspidata, 12 to 15 ins.	2.00
Taxus media hicksii, 15 to 18 ins.	2.00
Thuja occ. globosa, 8 to 10 ins. ....	.60
Thuja occ. pyramidalis, 15 to 18 ins.	1.00
Euonymus japonicus, 18 to 24 ins.	1.35
Forsythia speciosa, 2 to 3 ft. ....	.60
Silver Maple, 6 to 8 ft.	1.35
Flowering Hops Crab, 4 to 5 ft.	1.50

Write for complete wholesale price list.

SO. JERSEY COLONIAL NURSERIES, INC.
Route 45, R. D. 1 Salem, N. J.
Phone Yellowstone 5-2355

EVERGREENS, B&B

Pieris japonica, sheared, heavy	
15 to 18 ins. B&B.	\$2.50
18 to 24 ins. B&B.	3.00
Juniperus stricta, sheared	
1 1/2 to 2 ft. B&B.	1.75
2 to 2 1/2 ft. B&B.	2.00
2 1/2 to 3 ft. B&B.	2.50
Tsuga canadensis, sheared, heavy	
2 1/2 to 3 ft. B&B.	4.00
3 to 3 1/2 ft. B&B.	5.00
3 1/2 to 4 ft. B&B.	6.00

F.O.B. your truck. No shipping.

COLUMBIA NURSERY CO.
Extension E. 5th St. Bloomsburg, Pa.

JUNIPERS

3000 Andorra, 12 to 15, 15 to 18, 18 to 24 ins.	
2000 Hetz, 15 to 18, 18 to 24 ins.	
1000 Pfitzer, 12 to 15, 15 to 18 ins.	

ARBORVITAE

3000 Woodward globe, 12 to 15, 15 to 18 ins.	
3000 nigra, 18 to 24, 24 to 30 ins.	
1000 Pyramidal, 18 to 24 ins.	

Other kinds in smaller lots. See our ads under Lining-out Stock, Evergreens, Liners and Shrubs and Trees.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.
Phone Garfield 3-3739

EVERGREENS

Serbian Spruce, 4 to 15 ft.	
Douglas Fir, 5 to 8 ft.	
Blue Spruce, 4 to 8 ft.	
American Arborvitae, 4 to 7 ft.	
Intermediate Yew, 2 to 3 ft.	
Carolina Rhododendron, 2 to 3 ft.	
Scotch and White Pine, sheared, 4 to 7 ft.	

Nursery located near Green Hill Lake, U. S. route 122. Phone Juniper 2-5923.

GIBLARTAR (LEWIS) NURSERY
R. D. 1 Birdsboro, Pa.

EVERGREENS

2 to 3	3 to 3 1/2	3 1/2 to 4	4 to 4 1/2	4 1/2 to 5
\$2.50	\$3.00	\$3.50	\$4.25	\$4.50

EASTERN WHITE PINE

\$2.75	\$3.25	\$3.75	\$4.50	\$5.50
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Planted as 3 and 4-yr. transplants in 1953. Trimmed carefully for 6 consecutive years. Above are all top quality, choice plants, B&B.

WADE CHRISTMAS TREE FARMS
Route 1 Bellville, O.

SPRUCE

300 Colorado Spruce, 4 to 15 ft.	
100 Koster Blue Spruce, 10 to 18 ft.	

BURMAK NURSERY
95 Hillside Ave.
Van Cortlandtville, Peekskill, N. Y.
Phone Peek 7-4050

JUNIPERS, HETZ AND PFITZER
15 to 18 ins. to 24 to 30 ins., row-run, you dig them, \$50.00 per 100.

A. J. BUTTERFIELD, FARMINGTON, MO.

Classified Ads Offer Maximum

Results at Minimum Cost.

3000 GRAFTED JUNIPERS, SHEARED
Canaertii, glauca, burkii, hillii, keteleeri, chinensis mascula.
3 to 4 ft., \$3.50; 4 to 5 ft., \$4.50; 5 to 6 ft., \$6.00; 6 to 7 ft., \$7.50.

WAYNE HILL NURSERY
1495 N. "B" St. Hamilton, O.
Phone TWinbrook 4-9828

EUONYMUS

EUONYMUS LINERS

Per 100 Per 1000	
ROOTED CUTTINGS from open frames	
E. coloratus	\$ 6.50 45.00
E. patens	7.00 50.00
E. patens, small leaf	7.00 50.00
E. radicans upright, Sarcocoe	8.00 60.00
2-YR. TRANSPLANTS	
E. coloratus	33.00 280.00
E. radicans upright, Sarcocoe	35.00 300.00
3-YR. TRANSPLANTS	
E. radicans upright, Sarcocoe	55.00 500.00

FOX NURSERY, HUMANSVILLE, MO.

EUONYMUS

Each, 100 1000	
E. alatus compactus, 2-yr., T,	
9 to 12 ins.	\$0.30 \$0.25
3-yr., T, 12 to 18 ins., br. ....	.45 .40

Suitable for mail order.

C. HOOGENDOORN
WHOLESALE NURSERMAN
413 Turner Rd. Newport, R. I.

FORSYTHIAS

FORSYTHIA LYNNWOOD GOLD
2 1/2 to 3 ft., branched, 40c.
IMPERIAL NURSERIES
P. O. Box 1000 East Hartford, Conn.

FRUIT AND NUT TREES

SPECIAL ON STANDARD APPLE TREES
Fine as can be grown.

9/16-in., 4 to 6 ft., br. size, 30c.	
11/16-in., 5 to 6 ft., br. size, 35c.	
1-in. up, 6 to 7 ft., br. size, 40c.	

9/16-in. 11/16-in. 1-in. up	
Yellow Transparent . 600	870
Anoka . 600	1680
Yellow Delicious . 620	760
Dark Red Delicious . 820	90
Va. Red Winesap . 270	250
Dark Red Stayman . 500	100
Red Rome Beauty . 500	
2 to 3 ft. Apple whips, 15c.	
3 to 4 ft. Apple whips, 20c.	
4 to 5 ft. Apple whips, 25c.	
5 to 6 ft. Apple whips, 30c.	
2 to 3 ft. 3-4 4-5 5-6	
Anoka . 125 325 125	
Red June . 45 100 75	
Red Jonathan . 300 150 50	
Yellow Delicious . 375 1075 775 600	
Dark Red Delicious . 435 825 610 965	
Va. Red Winesap . 15 75 175 60	
Dark Red Stayman . 125 175 125	
Red Rome Beauty . 225 250 175 35	

CUMBERLAND VALLEY NURSERIES, INC.
J. R. Bragg, Pres.
P. O. Box 308 McMinnville, Tenn.
Phone 2616

PECAN TREES, PAPER-SHELL
The nation's finest quality paper-shell Pecan trees. Vigorous, heavy calliper, smooth trees, grown under irrigation. All staked and trimmed for best appearance. Machine dug with the whole fibrous root system intact. Free, four-color Point of Purchase banners showing in life-like color, all varieties. Free planting guide for your customers. Order now while selections are complete. Varieties available: Stuart, Success, Mahan, Garner, Western Schley, Burkett. Write for prices on packaged trees in attractive four-color bags.

PRICES, BARE-ROOT TREES

50 100 500	
1 to 2 ft.	\$0.90 \$0.85 \$0.80
2 to 3 ft.	1.30 1.25 1.20
3 to 4 ft.	1.45 1.40 1.35
4 to 5 ft.	1.85 1.80 1.75
5 to 6 ft.	2.35 2.30 2.20
6 to 7 ft.	3.30 3.20 3.10

WOLFE NURSERY
Box 2000 Stephenville, Tex.

SPECIAL ON 5-N-1 APPLES
Vigorous, healthy trees,
11/16-in., br. size, \$1.00.
CUMBERLAND VALLEY NURSERIES, INC.
J. R. Bragg, Pres.
P. O. Box 308 McMinnville, Tenn.
Phone 2616

DWARF FRUIT TREE UNDERSTOCK
Perfectly rooted and graded.
Apple stocks:
E. M. I.
Prices on request.
GROOTENDORST NURSERIES
Lakeland, Mich.

FRUIT TREE LINERS
Peach, Apple, Plum, Pear, Cherry.
Reasonably priced. Send want list.
GLOBE NURSERIES
Box 249 McMinnville, Tenn.

FRUIT AND NUT TREES—Continued

SPECIAL ON STANDARD PEACH TREES
Select quality trees.

5/16-in., 2 to 3 ft. size, 20¢ each.	
7/16-in., 3 to 4 ft. size, 25¢ each.	
9/16-in., 5 to 6 ft. size, 35¢ each.	
11/16-in., 5 to 6 ft. size, 35¢ each.	
1-in. up, 6 to 7 ft. size, 40¢ each.	

	1-in.	1 1/16 up
Sunhaven	300	850 2380 3065 270
Coronet	25	160 385 1140 610
Redhaven	1400	1600 190 480 550
Ranger	725	500 110
Keystone	725	500
Triogram	160	360 380
Richhaven	1325	1000 250
Sullivan Elberta	1375	3400
Redskin		400 125
Shipper's Late Red	1475	1635

CUMBERLAND VALLEY NURSERIES, INC.
J. R. Bragg, Pres.
P. O. Box 308 McMinnville, Tenn.
Phone 2616

DWARF FRUIT TREES

APPLES, Red Melba, Red McIntosh, Cortland, Red Jonathan, Yellow Delicious, Red Delicious, Yellow Transparent, Red Gravenstein, Spartan, Red Spy, Red Rome, King, Red Winesap, Winter Banana.
PEARS, Bartlett, Flemish Beauty, Anjou, PLUMS, Yellow Egg, Green Gage, Italian Prune, Peach Plum, Burbank, Gold Plum.
PEACHES, Golden Jubilee, Redhaven, Rochester, Valiant, Veteran.
APRICOTS, Moorpark, Blenheim, Tilton. Branched trees, 2 to 3 ft., \$1.40; 3 to 4 ft., \$1.50; 4 to 5 ft., \$1.60. 100 trees 5 per cent less.

Apple whips, 10 per cent less.
Minimum order, 25 trees, 5 trees per variety.
Apple root stock, E.M. IX, VII, II; M.M. 106, 109, 111.

BAUM'S NURSERY

R. D. 4 Danbury, Conn.

THOMAS BLACK WALNUT

Grafted trees our specialty, carefully grown, dug and packed to reach you in first-class condition. Repeat orders have built our business. No packing charge. Thomas Walnut, 2 to 3 ft., 10 trees, \$10.00; 3 to 4 ft., 10 trees, \$12.50; 4 to 5 ft., 10 trees, \$14.00. Book orders now to ensure delivery. C.O.D. shipments, send 25 per cent with order. We could not fill all orders for the past two seasons. Send for our list of fruit trees, Apple, Peach and Plum. No packing charge. Satisfaction guaranteed.

CLINGER NURSERY

Highway 71 West Rogers, Ark.

3000 APRICOT TREES

Jones or Chinese Apricot trees on Apricot roots.

VALLEY NURSERY, INC.

R. 4, Box 323 Ogden, Utah

GARDEN ROOTS

RHUBARB

TRUE CHIPMAN'S CANADA RED
Freshly cut divisions, \$15.00 per 50, \$25.00 per 100, \$220.00 per 1000. Can ship immediately or later. Express or motor freight.
C. D. WRIGHT, HAMBURG, IA.

THREE RED RHUBARBS

Chipman's Canada Red, MacDonald Red, Valentine Red, No. 1 divisions.
CHAPMAN'S BERRY FARM
East Leroy, Mich.

GERANIUMS

QUALITY GERANIUM CUTTINGS

Unrooted, \$4.50 per 100, \$40.00 per 1000; rooted, \$8.50 per 100, \$80.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.
C. SECRIST, MUSCATINE, IA.

GRAFTING STOCK

GRAFTING STOCK

Each, 100 1000
Viburnum dentatum, 2-yr., strong seedlings \$0.09 \$0.07 1/2
C. HOOGENDOORN, NURSERYMAN
408 Turner Road Newport, R. I.

If you don't find it listed here try a Want Ad in the next issue of the American Nurseryman.

GROUND COVERS

HARDY MYRTLE

(Vince minor)
20 to 30 leads, \$8.00 per 100, \$50.00 per 1000; 2500 and up, \$45.00 per 1000.
Euonymus coloratus, heavy rooted cuttings, \$6.00 per 100, \$50.00 per 1000.
English Ivy, rooted cuttings, \$6.00 per 100, \$50.00 per 1000.

VAUGHAN'S NURSERY

R. R. 2, 15910 Cleveland Rd. Granger, Ind.
Phone So. Bend, CE 3-3318

GROUND COVERS

Myrtle (Vince minor), hardest Ohio creeping periwinkle-blue flower, nursery-grown; 20 to 25 lead made-up clumps, \$50.00 per 1000. Prompt shipment. Bowles variety, 20 to 35-cane clumps, \$30.00 per 1000. Pachysandras, 1-yr. rooted cuttings, 8 to 10 ins., \$50.00 per 1000. Hedera helix (Eng. Ivy), 1-yr. rooted cuttings, \$50.00 per 1000. Boston compacta Fern, 2-yr., \$12.00 per 100. Cinnamon Fern, Christmas Fern, New York Fern, large clumps, \$9.00 per 100. Honeysuckles, 3-yr., branched and standardized for landscaping larger areas, \$45.00 per 1000. Can furnish above in pictured display cartons for garden center sales.

IVY DALE NURSERY

Upper River Rd. Gallipolis, O.

REARBERRY

(ARCTOSTAPHYLOS UVA-URSI)

Ideal evergreen trailer for sandy or acid soil. Nice, strong, cutting-grown plants from 3-in. pots.

Individually wrapped with all their roots and soil in aluminum foil.

\$50.00 per 100; 25 at 100 rate.

\$450.00 per 1000; 250 at 1000 rate.

Cash with order. No C.O.D.

MAYFAIR NURSERIES

R. D. 2 Nichols, N. Y.

Hardy Myrtle (Vince minor), plants with 20 leads or more and root roots, \$5.00 per 100, \$45.00 per 1000. Pachysandras, sand-rooted cuttings, \$40.00 per 1000. English Ivy, sand-rooted cuttings, \$40.00 per 1000. Cash. Also potted stock of all items listed.
Samuel I. Minder, 1248 Wabank Rd., Lancaster, Pa. Phone EX 3-6347.

HARDY PLANTS

STRONG FIELD-GROWN PERENNIALS.

	Per 100
Ajuga genevensis	\$18.00
Ajuga metallica crispa	18.00
Aquilegia McKana hyb.	20.00
Artemisia Silver Mound	25.00
Carnation Grenadin, red, maroon,	
pink, white, yellow	15.00
Dianthus June Carmine	20.00
Funkia variegata	22.50
Funkia Honeybells	35.00
Gaillardia Portola Hyb.	15.00
Geum Lady Stratheaden	20.00
Geum Mrs. Bradshaw	20.00
Hemerocallis Hyperion	25.00
Lythrum Robert	20.00
Sweet Williams, pink, red, white, double midget, mixed	15.00
Pyrethrum Buckeye	35.00
Viola cornuta, blue, yellow	15.00
Teucrium chamaedrys, cop size	20.00

Write for quantity quotations.

KINGWOOD NURSERIES

Dept. A Mentor, O.

HARDY FIELD-GROWN PERENNIALS

Aquilegias, separate colors; Arabis, Astilbes, Aubrietas, Campanulas, Carnations, Chives, Coreopsis, Delphinium Pacific Hybrids, 10 separate colors; Dianthus, Dicentra spectabilis, Dietrichs, Doronicums, Gaillardias, Geums, Gypsophilas, English Lavender, Lythrams, Russell Lupines, Myosotis, Phlox subulata, 15 varieties; Poppy Iceland, Pyrethrums (Daisies), Shasta Daisy, Sedums, 10 varieties; Sweet Williams, Tritomas, Violas and Violets.

GEORGE FRANK & SON

Penfield, N. Y.

MINIATURE ROSES

They're perfection in a "small package." Miniature Rose plants grow 8 to 12 ins. high and are excellent for pot plants, cutting, corsages, borders, window boxes. Tough and hardy, they're easy to grow. Guaranteed to bloom. Select from the 10 best known Miniatures in America, including smallest fully double white, the best pure yellow, pinks, reds, crimsons and two-toned. Some deliciously fragrant. Write for full descriptions and prices.

THE CONARD-PYLE COMPANY

West Grove 220, Pa.

PERENNIALS

of

HIGH QUALITY

for

SATISFIED CUSTOMERS.

For trade list, write Dept. A.

SPRINGBROOK GARDENS, INC.

Mentor, O.

HARDY PLANTS

CUSHION MUMS, large field-grown clumps in red, bronze, pink or yellow \$15.00
SWEET WILLIAMS, mixed only 10.00
SHASTA DAISY Alaska 10.00
CARNATION Grenadin, red, pink, yellow or mixed 10.00
All our plants are transplanted, field-grown.
NORTH POLE NURSERY
Cornucopia, Wis.

POLYGONUM REYNOUTRIA

(Fleece Bush)

25	100	1000
Strong divisions	\$4.75	\$17.50 \$150.00
FUNKIA SUBCORDATA GRAND, ALBA (Plantain Lily)		
Strong divisions	\$15.00	\$55.00

THE FLOWER FARM

East McKeesport 9, Pa.

BLEEDING HEART

(Dicentra Spectabilis)

4 eyes and up, select stock; in lots of 100, \$30.00, F.O.B. St. Paul, Minn. Complete line of Decorative Dahlias, send for list.

KILLMER'S NORTHERN NURSERIES

1700 W. Larpenteur Ave. St. Paul 13, Minn.

HARDY PLANTS

Wholesale growers of Phlox, outdoor Chrysanthemums and a large assortment of other perennial plants.

Write for trade list.

WALTERS GARDENS

R. R. 2 Zeeland, Mich.

BLEEDING HEARTS

(Dicentra spectabilis)

Clean, healthy, state inspected. Roots, 25 or more, 3 to 5 eyes, \$5; 5 to 8 eyes up, 45¢.

VAN ENGEL'S

206 Richard Ave. Kalamazoo 33, Mich.

IT'S "MODERN MUM" TIME AGAIN
Send today for our trade list of the finest new hardy Mums. Included, also, are many outstanding perennials.

FLEMING'S FLOWER FIELDS

3100 Leighton Ave. Lincoln 3, Neb.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

PITZONKA'S FIELD-GROWN

PERENNIALS

Write for trade list.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

Primroses, hardy, evergreen, mixed colors; only blooming size divisions, \$11.00 per 100, \$100.00 per 1000.

Mountville Nurseries, Mountville, Ga.

Liriope (Ophiopogon), hardy, evergreen, for walks, borders and porch boxes. Good divisions, \$20.00 per 1000.

Mountville Nurseries, Mountville, Ga.

SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

PEARCE SEED CO., Moorestown, N. J.

WELLER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

Ajuga reptans, blue flowers in spring, a fine ground cover, 100, \$10.00; 1000, \$90.00.

Mountville Nurseries, Mountville, Ga.

HEATHERS

HEATHERS

Winter and spring 1960.

150 Calluna vulgaris alportii, 4 to 6 ins.	Each \$0.45
300 Calluna vulgaris alba erecta, 4 to 6.	.45
150 Calluna vulgaris alba minor, 4 to 6.	.45
100 Calluna vulgaris multiplex, 4 to 6.	.45
400 Calluna vulgaris pilosa alba, 4 to 6.	.45
500 Calluna vulgaris pilosa alba, 6 to 9.	.55
300 Calluna vulgaris rubra, 4 to 6 ins.	.45

THE CAPE COD NURSERIES

H. V. LAWRENCE, INC.

Falmouth, Mass.

HARDY HEATH AND HEATHER LINERS

Price list on request.

AVALON MOUNTAIN GARDENS, Dana, N.C.

HOLLY

NEW VARIETIES OF PROVED MERIT

Illex opaca Farge, exceptionally hardy.	Per 100 \$40.00
Illex opaca Old Heavy Berry	50.00
Illex opaca Judge Brown No. 7, new, outstanding	75.00
Illex opaca Judge Brown No. 9, new, male	75.00

ALL STRONG SPRING LINERS

Send for our new list.

WELLS NURSERY

P. O. Box 141 Red Bank, N. J.

Phone Shadyside 1-0180.

ILEX OPACA

Northern varieties.

2 to 3 ft., 5-yr., in field	Each \$5.00
3 to 4 ft., 5-yr., in field	7.50
4 to 5 ft., 5-yr., in field	10.00
Lighter plants, 4-yr., in field, \$3.50, \$5.00 and \$7.50.	

SIMPSON ORCHARD CO., INC.

1504 Wheatland Rd. Vincennes, Ind.

Phone TU 2-2441

American Holly, grown from cuttings; sex guaranteed, female or male. Bed-grown, 11 months old, 4 to 6 ins., 17 1/2¢.

Please see complete list on page 99.
Templeton, Phytotektor, Winchester, Tenn.

CONTAINER-GROWN PLANTS
ILEX, OUR SPECIALTY.

1-gal. size, 80¢ each.
2-gal. size, \$1.65 each.
Convexa, rotundifolia,
burfordi and helleri.
Send for list.
TILLMAN NURSERY
Indiana Highway 662 Newburgh, Ind.
Phone UL 3-8649

ILEX ROTUNDFOLIA

Thousands of splendid pruned plants.
15 to 18 ins. \$1.85 24 to 30 ins. \$3.35
18 to 24 ins. 2.35 2 1/2 to 3 ft. 4.50
100 or more, 10 per cent discount.
Send for spring list, Azaleas, Crabs, broad-
leaved Evergreens, etc.

THE TANKARD NURSERIES

Exmore, Virginia

DWARF HOLLY

Per 1000

ILEX CRENATA HELLERI

2 1/2-in. pots \$150.00

ILEX VOMITORIA NANA

2 1/2-in. pots 175.00

BRANCHED, HEALTHY

COTTAGE HILL NURSERY, LTD.

4000 Japonica Lane Mobile, Ala.

ILEX OPACA

SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

HOLLY HAVEN, INC.

Box 75 New Lisbon, N. J.

HOLLY

English, Silver variegated.

2 1/2-in. pots, 8 to 10 ins. tall, 35¢.

Ready now. Cash with order, please.

KRUSCHKE GREENHOUSES

Clackamas, Ore.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica, halliana, extra-heavy
No. 1, 3 and 4-yr., 18 to 24-in. field plants.
3, 4 to 6 leads, \$40.00 per 1000; lighter
grade, \$30.00 per 1000; sample, 100, \$4.00.
Experienced labor for grading and packing
quantity orders. Immediate shipment. No
order too large. Phone OR 2-4612.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckle, good plants, well-
packed, \$25.00 per 1000.

Mountville Nurseries, Mountville, Ga.

IRISES

Japanese Iris (Kaempferi), large blooming

size divisions. Assorted colors, labeled, \$3.50

per 10, \$20.00 per 100, prepaid.

Vance Wilson, R. 3, Savannah, Ga.

Turn Stock into Dollars

by Listing it in the Classified Ads

of the American Nurseryman.

IVIES

BALTIC IVY

Hardest ivy. Fine for wall or ground

cover. True stock. Well-rooted plants.

Per 100 Per 1000

Rooted cuttings \$ 7.00 \$ 65.00

2-in. pots 12.50 115.00

NEW THORNDAL IVY

2 1/2-in. pots \$25.00 per 100

Euonymus kewaneeana, 2-in. pots, 20.00 per 100

EUONYMUS VEGETUS

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

2-yr., field-grown, \$35.00 per 100.

STRATFORD GARDENS

Russell Breece, M. R. 9 Delaware, O.

ENGLISH IVY (HEDERA HELIX)

Our super quality large-leaved strain.

Approved landscape architects' standards.

Order now! Ready for immediate shipment.

Strong 5 to 7-in. cuttings from field plants,

\$6.00 per 100, \$55.00 per 1000.

BACOCK GARDENS, R. 3, Jamestown, N.Y.

ENGLISH IVY (HEDERA HELIX)

Rooted cuttings,

\$20.00 per 1000.

FRED C. GLOECKNER & CO., INC.

15 E. 26th St. New York 10, N. Y.

English Ivy, both small and large leaved,

\$5.00 per 100, \$40.00 per 1000.

Mountville Nurseries, Mountville, Ga.

Quick — Convenient — Cheap!

Selling through the Classified Ads

of the American Nurseryman.

LARCH

LARIJ DECIDUA

The FAST growing conifer with ALL new

needles EVERY year.

Each 100 1000

*4-yr., tr. (2-2), 2 to 2 1/2 ft. \$0.35 \$0.33

1 1/2 to 2 ft.30 .27

3-yr., tr. (2-1), 1 to 1 1/2 ft.16 .12

*Perfect for potting or mail order.

WAVECREST NURSERIES

Pennville, Mich.

LAWN GRASS AND SEED

"PURE KY." BLUE GRASS LAWN SEED

Grown on our farm with the thought of
beauty of your lawn in mind. It's satisfying
to sow and sell this "Thoroughbred Seed."
10 lbs., \$7.00; 25 lbs., \$15.00; 50 lbs., \$27.50;
100 lbs., \$50.00. F.O.B. here, subject to mar-
ket price change, or unsold.

WALNUT LAWN FARM

Route 2 Lexington, Ky.

LINING-OUT STOCK

LINING-OUT STOCK

(BARE-ROOT)

150 Azalea Embly hybrids, 6 to 12 ins.,

seedlings, 3-yr., TT \$0.50

200 Azalea Ghent hybrids, 6 to 9 ins.,

seedlings, 3-yr., TT50

1000 Azalea Hino-Crimson, 4 to 6 ins.,

seedlings, 3-yr., TT50

400 Azalea Hino-Crimson, 6 to 9 ins.,

3-yr., TT65

1000 Azalea Japonica, yellow; 6 to 9

ins., seedlings, 3-yr., TT50

1000 Azalea Japonica, yellow; 9 to 12

ins., seedlings, 3-yr., TT60

100 Azalea kaempferi, 9 to 12 ins.,

seedlings, 3-yr., TT60

500 Azalea kaempferi, 12 to 15 ins.,

seedlings, 3-yr., TT70

200 Azalea kaempferi Pink Beauty,

clear pink; 4 to 6 ins., 2-yr., TT50

200 Azalea mucronulata, 2 to 4 ins.,

seedlings, 3-yr., TT30

500 Azalea mucronulata, 6 to 9 ins.,

seedlings, 3-yr., TT50

500 Azalea mucronulata, 9 to 12 ins.,

seedlings, 3-yr., TT60

250 Azalea pontica, 6 to 9 ins., seed-

lings, 3-yr., TT50

400 Azalea Rosebud, 4 to 6 ins., seed-

lings, 3-yr., TT50

150 Azalea Snow, 4 to 6 ins., seedlings,

2-yr., TT50

100 Azalea vaseyi, 6 to 9 ins., seed-

lings, 3-yr., TT50

500 Buxus sempervirens, 4 to 6 ins.,

seedlings, 2-yr., TT25

500 Chamaecyparis obtusa gracilis, 6

to 9 ins., grafts, 2-yr., T 1.00

300 Chamaecyparis obtusa gracilis, 9

to 12 ins., grafts, 3-yr., T 1.25

200 Chamaecyparis obtusa nana, 4 to 6

ins., grafts, 2-yr., T 1.00

700 Clethra alnifolia rosea, 9 to 12

ins., 2-yr., TT35

400 Cornus florida rubra, 12 to 18 ins.,

grafts, 2-yr., T 1.00

200 Cotoneaster divaricata, 12 to 18

ins., seedlings, TT20

400 Deutzia kalmiaeflora, 9 to 12 ins.,

seedlings, 3-yr., TT35

200 Enkianthus campanulatus, 6 to 9

ins., seedlings, 2-yr., TT35

100 Hydrangeas, double blue, 2 1/2-in.

peat pots20

800 Ilex crenata convexa, 3 to 5 ins.,

2-yr., TT30

1000 Ilex glabra, 2 1/2-in. peat pots30

200 Juniperus glauca hetzi, 9 to 12 ins.,

3-yr., TT60

2000 Kalmia latifolia, 2 to 4 ins., seed-

lings, 3-yr., TT40

750 Kalmia latifolia fuscata, 2 to 4

ins., seedlings, 3-yr., TT45

500 Leucothoe catesbaei, 6 to 9 ins.,

seedlings, 3-yr., TT45

400 Leucothoe catesbaei, 9 to 12 ins.,

seedlings, 3-yr., TT55

3000 Myrica pensylvanica, 4 to 6 ins.,

seedlings, 1-yr.07

300 Oxydendrum arboreum, 6 to 9 ins.,

seedlings, 2-yr., TT25

300 Pieris floribunda, 6 to 9 ins., seed-

lings, 2-yr., TT40

1000 Pieris japonica, 6 to 12 ins., seed-

lings, 3-yr., TT25

1000 Pieris japonica, 6 to 12 ins., seed-

lings, 3-yr., TT40

500 Rhododendron carolinianum, 6 to 9

ins., seedlings, 3-yr., TT55

1000 Rhododendron carolinianum, 9 to

12 ins., seedlings, 3-yr., TT65

300 Rhododendron carolinianum, al-

bum, 9 to 12 ins., seedlings, 3-

yr., TT65

200 Rhododendron catawbiense x

America, 6 to 9 ins., seedlings,

3-yr., TT65

500 Rhododendron fortunei hybrid, 9

to 12 ins., seedlings, 3-yr., TT75

1000 Rhododendron fortunei Luchan, 2

to 5 ins., seedlings, 2-yr., TT45

300 Rhododendron racemosum, 6 to 9

ins., seedlings, 3-yr., TT75

200 Rosa rugosa alba, 12 to 18 ins.,

grafts50

100 Thuja occ. pyramidalis, 12 to 15

ins., grafts, 2-yr., T 1.00

200 Viburnum sieboldi, 6 to 9 ins.,

2-yr., TT35

300 Viburnum tomentosum, 6 to 9 ins.,

2-yr., TT35

200 Weigela florida, variegated, 6 to 9

ins., 2-yr., TT30

Samples of lining-out stock sent on request.

THE CAPE COD NURSERIES

H. V. LAWRENCE, INC.

Falmouth, Mass.

LINING-OUT STOCK

1 and 2-yr. seedlings.

Winter and spring 1960.

Per 100 Per 1000

ACER GINNALA

50 9 to 12 ins. \$15.00

125 6 to 9 ins. 10.00

75 4 to 6 ins. 7.50

AMORPHA FRUTICOSA

100 15 to 24 ins. 8.00

250 12 to 18 ins. 6.50

150 6 to 9 ins. 4.00

BERBERIS THUNBERGI

200 12 to 18 ins. 9.00

750 6 to 9 ins. 5.00 \$ 40.00

300 4 to 6 ins. 3.50 27.00

CARAGANA ARBORESCENS

725 15 to 24 ins. 5.00 45.00

1000 6 to 12 ins. 2.75 22.50

650 4 to 6 ins. 1.50 10.00

CHAENOMELES LAGENARIA

175 9 to 15 ins. 5.00

CRATAEGUS INTRICATA

150 4 to 9 ins. 8.50

100 2 to 4 ins. 4.50

CRATAEGUS MOLLIS

50 9 to 12 ins. 15.00

250 4 to 6 ins. 7.50

CRATAEGUS MONOGYNA

300 15 to 24 ins. 21.00 200.00

350 9 to 15 ins. 16.50 155.00

100 6 to 9 ins. 9.50

CRATAEGUS OXYACANTHA

100 2 to 6 ins. 6.00

CRATAEGUS PUNCTATA

125 9 to 15 ins. 16.50

85 6 to 9 ins. 9.50

CORNUS MAS

50 12 to 15 ins. 11.00

100 6 to 12 ins. 8.25

CORNUS RACEMOSA

250 4 to 6 ins. 5.50 50.00

275 2 to 4 ins. 4.00 35.00

COTONEASTER DIVARICATA

1600 12 to 18 ins. 17.50 165.00

800 9 to 12 ins. 13.00 120.00

300 12 to 18 ins. 8.50 80.00

225 4 to 6 ins. 6.00 50.00

COTONEASTER FOVEOLATA

75 18 to 24 ins. 22.00

200 12 to 18 ins. 19.00

ELAEAGNUS ANGUSTIFOLIA

225 2 to 3 ft. 15.00 140.00

425 18 to 24 ins. 12.00 110.00

300 12 to 18 ins. 8.50 80.00

170 6 to 12 ins. 6.00

EUONYMUS EUROPAEUS

125 15 to 18 ins. 15.00

100 12 to 15 ins. 12.00

175 9 to 12 ins. 11.00

GINKGO BILOBA

225 2 to 6 ins. 12.50

LONICERA TATARICA

375 12 to 18 ins. 7.00 60.00

550 6 to 12 ins. 5.00 40.00

675 4 to 6 ins. 3.00 25.00

PHILADELPHUS CORONARIUS

125 2 to 6 ins. 2.75

PHYSCARPUS OPULIFOLIUS AUREUS

300 12 to 24 ins. 7.50 65.00

PRUNUS MARITIMA

100 6 to

LINING-OUT STOCK—Continued

SPECIALS

	Per 100	Per 1000
<i>Cornus florida alba plena</i> (double White-Flowering Dogwood)		
6 to 12 ins.	\$50.00	\$450.00
12 to 18 ins.	75.00	650.00
<i>Cornus florida rubra</i> (deep Pink-Flowering Dogwood)		
6 to 12 ins.	40.00	350.00
12 to 18 ins.	70.00	650.00

SEEDLINGS

<i>Berberis thunbergii atropurpurea</i> (red-leaved Barberry), 6 to 9 ins.	8.00	60.00
<i>Castanea crenata</i> (Japanese Chestnut), 1-yr., 6 to 9 ins.	12.00	100.00
9 to 12 ins.	15.00	120.00
<i>Castanea mollissima</i> (Chinese Chestnut), 1-yr., 6 to 9 ins.	12.00	100.00
9 to 12 ins.	15.00	120.00
<i>Cornus florida</i> (White Dogwood), 4 to 6 ins.	5.00	40.00
6 to 9 ins.	6.00	50.00
9 to 12 ins.	8.00	60.00

<i>Magnolia grandiflora</i> , seeds selected for these seedlings were from trees with large leaves, brown underneath.		
2 to 4 ins.	7.50	60.00
6 to 9 ins.	10.00	85.00
<i>Mahonia bealei</i> (japonica), 2 to 4 ins.	6.00	50.00

LINERS GROWN FROM CUTTINGS

<i>Abelia Edward Goucher</i> , 6 to 9 ins.	12.00	100.00
9 to 12 ins.	15.00	120.00
<i>Abelia grandiflora</i> , 6 to 9 ins.	10.00	75.00
9 to 12 ins.	14.00	120.00
<i>Forsythia Spring Glory</i> , 6 to 9 ins.	6.00	50.00

<i>Ilex crenata microphylla</i> , 6 to 9 ins.	15.00	120.00
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<i>Ilex crenata rotundifolia</i> , 6 to 9 ins.	10.00	85.00
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field-grown, T., 6 to 9-in.		
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spread	25.00	200.00
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<i>Jasminum floridum</i> , 4 to 6 ins.	10.00	80.00
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<i>Juniperus depressa plumosa</i> (Andorra Juniper), field-grown, T., 9 to 12-in. spread	25.00	200.00
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<i>Juniperus hetzi</i> , field-grown, T., 9 to 12-in. spread	25.00	200.00
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<i>Kerria japonica</i> , 6 to 9 ins.	15.00	120.00
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9 to 12 ins.	20.00	175.00
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<i>Magnolia soulangeana</i> , 1-yr., 6 to 9 ins.	30.00	275.00
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<i>Viburnum burkwoodii</i> , 4 to 6 ins.	17.50	150.00
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6 to 9 ins.	20.00	175.00
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<i>Viburnum carlesii</i> (Fragrant Snowball), 6 to 9 ins.	25.00	200.00
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<i>Viburnum lantana</i> , 6 to 9 ins.	10.00	85.00
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9 to 12 ins.	12.00	100.00
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<i>Viburnum opulus sterile</i> (Common Snowball), 4 to 6 ins.	10.00	80.00
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<i>Viburnum rhytidophyllum</i> (leather-leaved), 4 to 6 ins.	12.00	100.00
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<i>Viburnum tomentosum plicatum</i> (Japanese Snowball), 4 to 6 ins.	15.00	120.00
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6 to 9 ins.	20.00	175.00
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9 to 12 ins.	25.00	200.00
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<i>Weigela vanheckii</i> , 6 to 9 ins.	10.00	80.00
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POTTED PLANT

<i>Euonymus coloratus</i> , 2 1/4-in. pots	15.00	120.00
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ROOTED LAYERS

<i>Euonymus coloratus</i> , 6 to 9 ins.	7.50	60.00
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<i>Forsythia Spring Glory</i> , 6 to 9 ins.	35.00	
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<i>Spiraea thunbergii</i> , 6 to 9 ins.	35.00	
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<i>Spiraea vanhouttei</i> , 6 to 9 ins.	35.00	
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(Plants packed for shipment free of charge.)

We offer specimen trees in the following varieties in quantity:

Cornus florida (White-Flowering Dogwood)

Cornus florida alba plena (double White-Flowering Dogwood)

Cornus florida rubra (deep Pink or Red-Flowering Dogwood)

Malus (Flowering Crab Apples): *Alameda*, *Almey*, *Arrow*, *atrosanguinea*, *eleyi*, *floribunda purpurea*, *Geneva*, *Gloriosa*, *Hopa*, *Red Silver*, *scheideckeri*

Prunus serrulata Kwanzan (Kwanzan Flowering Cherry)

Trucks available at reasonable rates.

Speedy truck freight deliveries.

THE SOUTHERN NURSERY AND LANDSCAPE CO.

Winchester, Tenn.

Established 1872 Phone WO 7-2302

EVERGREENS

See our complete listing in this issue

In our double page ad.

T. G. OWEN & SON, INC.

Columbus, Miss.

VIBURNUM LANTANA

Lining-out shrubs.

Per 100 Per 1000

3000 1-yr., 5 to 8 ins., strong \$ 6.00 \$50.00

500 2-yr., tr. pl., 10 to 15 ins. 12.00

JOHN BOS NURSERY, CLYDE, O.

LINERS OF THE BETTER KINDS

Novelties and rare items.

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

EVERGREENS

Andorra Juniper, 6 to 8 ins., bare-root \$0.05

Blue Hets Juniper, 6 to 8 ins., bare-root .05

Burk Juniper (upright), 6 to 10 ins., bare-root .12

Compact Pfitzer Juniper (Nick's), 6 to 8 ins., bare-root .12

Greek Juniper, 6 to 8 ins., bare-root .12

Savin Juniper, 6 to 8 ins., bare-root .06

Pfitzer Juniper, 6 to 10 ins., bare-root .16

Rosefield's Munglow Juniper (scopolorum), a denser Blue Heaven; 6 to 8 ins., bare-root .30

Spreading Jap. Yew (*Taxus cuspidata*), 2-yr. plant bands .20

Von Ehrton Juniper, 6 to 10 ins., bare-root .06

DECIDUOUS, BARE-ROOT

Forsythia Arnold's Dwarf, very dwarf, 5 to 6 ins. .08

Forsythia Arnold's Giant, 5 to 6 ins. .07

Forsythia Beatrix Farrand, 8 to 12 ins. .04

Forsythia Lynwood Gold, 8 to 12 ins. .04

Forsythia nana compacta, 6 to 8 ins. .04

Forsythia Spring Glory, 8 to 12 ins. .04

Hypericum Hidcote, 8 to 12 ins. .04

Hypericum kalmianum, 8 to 12 ins. .04

Hybrid Elm, 12 to 18 ins. .24

Honeysuckle (vine), heckrotti, giant flowering, everblooming, 8 to 12 ins. .04

Clayey's dwarf bush Honeysuckle, 10 to 12 ins. .04

Privet, golden vicari (all yellow), 6 to 8 ins. .06

Privet, Lodense, 6 to 10 ins. .04

Privet, Regale, 8 to 10 ins. .04

Weigela roses, 8 to 12 ins. .04

BROADLEAFS

Euonymus carrierei, a small leaf patens, 8 to 10 ins. .04

Euonymus coloratus, 8 to 10 ins. .04

Euonymus patens Flagpole, small leaf, 8 to 10 ins. .04

Euonymus patens Newport, medium leaf, 8 to 10 ins. .04

Euonymus patens Owen, small leaf, 8 to 10 ins. .04

Euonymus radicans erectus, a small leaf patens, 8 to 10 ins. .04

Euonymus patens Rosehill, medium leaf, 8 to 10 ins. .04

Euonymus radicans upright (Sarcocoe), 5 to 6 ins. .07

Variegated Leaf Honeysuckle vine (Gold Net), 8 to 10 ins. .04

Pyracantha Kusan, heavy berried and some dwarfier than Ialandi. Hardy in Iowa. 5 to 8 ins. .05

Pyracantha Ialandi, 5 to 8 ins. .05

Pyracantha pauciflora, dwarf, round, shiny leaved, very dense bush. Hardiest of all. For heavy berries, plant a Kusan or Ialandi close by. 5 to 6 ins. .05

PERENNIALS

Teucrium chamaedrys, 5 to 6 ins. .04

Shipment through the winter, or book your order for spring. Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.

MCININCH GREENHOUSES

St. Joseph, Mo.

HEAVY TAXUS LINERS

From field and open beds.

Per 100

Taxus cuspidata, 3-yr., 10 to 12 ins. \$45.00

Taxus cuspidata, 4-yr., 12 to 15 ins. 55.00

Taxus capitata, 3-yr., 10 to 12 ins. 45.00

Taxus andersonii, 4-yr., 10 to 12 ins. 50.00

Taxus brownii, 3-yr., 10 to 12 ins. 50.00

Taxus brownii, 4-yr., 12 to 15 ins. 60.00

Taxus hicksii, 3-yr., 12 to 15 ins. 45.00

Taxus hicksii, 4-yr., 12 to 15 ins. 55.00

Taxus hatfieldi, 3-yr., 10 to 12 ins. 45.00

Taxus hunnewelliana, 3-yr., 10 to 12 ins. 45.00

Euonymus vegetus, 3-yr., 12 to 15 ins. 45.00

STROHL'S NURSERY

5204 St. Joe Rd. Ft. Wayne, Ind.

LINERS FROM FIELD BEDS

Per 100

Taxus brownii, 1-yr., T., 6 to 8 ins. \$17.50

Taxus brownii, 2-yr., T., 8 to 10 ins. 30.00

Taxus hatfieldi, 1-yr., T., 6 to 8 ins. 17.50

Taxus hatfieldi, 2-yr., T., 8 to 10 ins. 30.00

Taxus hatfieldi, 3-yr., TT, 10 to 12 ins. 45.00

Taxus hatfieldi, 3-yr., TT, 12 to 15 ins. 55.00

Taxus hicksii, 1-yr., T., 6 to 8 ins. 17.50

Taxus kelseyi, 1-yr., T., 6 to 8 ins. 17.50

Ilex opaca Vars.: *Parag*, *Mery*

Christmas, male; 3 to 4-in. pots, 12 to 15-in. plants 75.00

Zelkova serrata, 1-yr. edils., 12 to 15 ins. 15.00

BLAKE'S NURSERY

P. O. Box 93 Saddle River, N. J.

LINING-OUT STOCK

Per 100 Per 1000

BEDDED 2-YR. IN THE OPEN

Taxus cuspidata \$17.50 \$150.00

BEDDED 1-YR. IN THE OPEN

Taxus cuspidata 14.00 130.00

Taxus hicksii 14.00 130.00

ROOTED CUTTINGS, SPRING, 1960

Taxus cuspidata 7.00 60.00

Taxus cuspidata capitata 12.00 100.00

Taxus hicksii 7.00 60.00

Free packing, cash with order, please.

A. ONDERSMA & SONS

1310 28th St., S. E. Grand Rapids, Mich.

LINING-OUT STOCK

Bedded 1-yr. in the open. 100 1000

Ilex convexa \$20.00 \$150.00

Ilex rotundifolia 20.00 150.00

Ilex hetzi 20.00 150.00

Juniperus pfitzeriana 20.00 150.00

Juniperus hetzi 20.00 150.00

Taxus andersonii 20.00 175.00

Taxus brevifolia 20.00 175.00

Taxus capitata, cutting-grown 25.00 225.00

Taxus capitata, Adams cutting-grown 25.00 225.00

Taxus canadensis stricta 15.00 150.00

Taxus cuspidata 17.50 150.00

Taxus hatfieldi 17.50 150.00

Taxus hunnewelliana 17.50 150.00

Taxus hicksii 17.50 150.00

Taxus intermedia 17.50 150.00

Taxus henryi 20.00 175.00

Taxus densiformis 20.00 175.00

Taxus vermeulenii 17.50 150.00

Taxus wardii 17.50 150.00

Taxus Moon's columnaris 20.00 175.00

Taxus brownii 17.50 150.00

2-yr. bedded in the open.

Ilex convexa, 6 to 9 ins. \$25.00 \$200.00

Ilex rotundifolia, 6 to 9 ins. 25.00 200.00

Ilex hetzi, 6 to 9 ins. 25.00 200.00

Taxus Adams col., 12 to 15 ins. 50.00 450.00

Taxus Moon's col., 8 to 12 ins. 30.00 250.00

Taxus cuspidata, 6 to 9 ins. 30.00 250.00

Taxus hatfieldi, 6 to 9 ins. 30.00 250.00

Taxus cuspidata comp., 6 to 9 ins. 30.00 250.00

Taxus hunnewelliana, 6 to 9 ins. 30.00 250.00

Taxus brownii, 6 to 9 ins. 30.00 250.00

Taxus intermedia

POT-GROWN GRAFTS

All our understocks are potted up during the spring, grown in frames in pots all summer and grafted the following winter, ensuring the best root system to be grown and assures minimum losses.

	Per 100
*Acer palmatum atropurpureum	75.00
*Carpinus betulus fastigiata	60.00
Cedrus atlantica glauca	75.00
Cedrus atlantica aurea	100.00
*Cornus florida rubra	50.00
*Cornus florida rubra Prosser	65.00
*Cornus florida pendula	60.00
*Cornus florida flore-plena	60.00
*Cornus florida welchii var.	65.00
*Cornus kousa chinensis	60.00
*Cornus kousa speciosa	60.00
*Hamamelis mollis	50.00
*Hamamelis brevipedata	100.00
Fagus sylvatica Tricolor	75.00
*Fagus sylvatica riversi	60.00
*Fagus sylvatica pendula	60.00
*Fagus sylvatica heterophylla	60.00
*Fagus sylvatica fastigiata	75.00
*Magnolia stellata	75.00
*Magnolia stellata rubra	75.00
*Magnolia stellata Waterlily	75.00
Magnolia yulan	75.00
Magnolia cordata (yellow)	75.00
Picea pung. glauca moerheimi	100.00
Pinus cembra	60.00
Pinus Tanyosha	50.00
*Viburnum carlesii	50.00
Viburnum juddii	50.00
Viburnum burkwoodii	50.00
Viburnum chenaultii	50.00

Varieties marked with a star can be supplied in 1-yr., field-grown bedded plants, at \$15.00 per 100 extra above the pot-grown grafts.

VERKADE'S NURSERIES, WAYNE, N. J.

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Each
Ilex cornuta burfordii, 8 to 10 ins.	12c
Ilex cornuta burfordii, 6 to 8 ins.	12c
Ilex cornuta femina, 8 to 10 ins.	12c
Ilex cornuta femina, 6 to 8 ins.	10c
Ilex crenata rotundifolia, 10 to 12 ins.	12c
Ilex crenata rotundifolia, 8 to 10 ins.	10c
Ilex crenata rotundifolia, 6 to 8 ins.	8c
Ilex crenata bullata convexa, 4 to 6 ins.	10c
Ligustrum lucidum compactum	12c
(Griffiths Black Wax), 8 to 10 ins.	12c
Ilex opaca femina, 10 to 12 ins.	20c
Ilex opaca femina, 8 to 10 ins.	25c
Mahonia bealei, 6 to 8 ins.	12c
Buxus harlandii, 6 to 8 ins.	10c
Buxus japonica, 6 to 8 ins.	10c
Pyracantha yunnanensis, 6 to 8 ins.	18c
Euonymus radicans, 8 to 10 ins.	8c

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, ensuring berries for you.

This stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

LINING-OUT STOCK

	Per 100	Per 1000
Greek Juniper		
2-yr., 8 to 12 ins.	\$15.00	\$125.00
Hetz Juniper		
6 to 8 ins., 1-yr.	10.00	90.00
8 to 12 ins., 1-yr.	12.50	100.00
12 to 16 ins., 2-yr.	22.50	200.00
Pfitzer Juniper		
8 to 12 ins., 2-yr.	22.50	200.00
Pfitzer compacta Juniper		
6 to 12 ins., 1-yr.	15.00	125.00
8 to 12 ins., 2-yr.	20.00	175.00
Pfitzer compacta Juniper (Nick's)		
6 to 8 ins., 1-yr.	15.00	125.00
8 to 12 ins., 1-yr.	20.00	175.00
8 to 12 ins., 2-yr.	22.50	200.00
Berberis julianae, 2 1/2-in. pots, heavy	20.00	
Ilex bullata, 2 1/2-in. pots	15.00	
Ilex hetzi, 2 1/2-in. pots	15.00	
Ilex rotundifolia, 2 1/2-in. pots	15.00	
Ilex opaca, 2 1/2-in. pots	35.00	
Photinia serrulata, bed-grown seedlings	6.00	
Cherry Laurel, bed-grown sdigs., 6 to 8 ins.	4.00	
8 to 12 ins.	6.00	
Viburnum tomentosum, 8 to 12 ins., 1-yr., field-grown	10.00	90.00
Cornus florida, 8 to 12 ins., 1-yr. seedlings	4.00	35.00
Cornus florida rubra, bare-root, 18 to 24 ins., 1-yr.	100.00	
2 to 3 ft., 1-yr.	125.00	

Write for our complete price list.

BYERS NURSERY CO.
Chase, Ala.

LINING-OUT STOCK

	Per 100	Per 1000
1-YR. SEEDLINGS		
Acer dasycarpum, 15 to 18 ins.	\$10.00	\$75.00
Acer dasycarpum, 12 to 15 ins.	8.00	60.00
Acer dasycarpum, 9 to 12 ins.	6.00	40.00
Acer dasycarpum, 6 to 9 ins.	5.00	30.00
Acer platanoides, 3 to 6 ins.	6.00	40.00
Acer saccharum, 3 to 6 ins.	8.00	60.00
Albizia julibrissin, 12 to 15.	10.00	75.00
Cornus florida, 9 to 12 ins.	6.00	45.00
Cornus florida, 6 to 9 ins.	5.00	35.00
Cornus florida, 3 to 6 ins.	4.00	25.00
Cornus florida, 1 to 3 ins.	3.00	15.00
Gleditsia tria. inermis, 9 to 12	8.00	60.00
Liquidambar styraciflua, 9 to 12 ins.	10.00	75.00
6 to 9 ins.	8.00	65.00
Magnolia kobus, 4 to 6 ins.	8.00	60.00
Koeleruteria paniculata, 6 to 9	8.00	60.00
Phellodendron amurense, 9 to 12 ins.	10.00	75.00
Sorbus aucuparia, 6 to 9 ins.	6.00	40.00
Zelkova serrata, 12 to 15 ins.	10.00	75.00
2-YR. TRANSPLANTS		
Acer rubrum, 9 to 12 ins.	10.00	75.00
Ulmus americana, 12 to 15 ins.	10.00	75.00
1-YR. CUTTINGS		
Platanus orientalis (acerifolia), 3 to 4 ft.	25.00	
2 to 3 ft.	20.00	

BLOODGOOD NURSERIES

Dept. American Nursery Co.

R. D. 1 Doylestown, Pa.

LINING-OUT STOCK

	Per 100	Per 1000
Dwarf Euonymus		
Gardenia radicans		
Gardenia fortunei		
Ilex rotundifolia		
Viburnum odorat.		
Ligustrum lucidum		
PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings	\$0.75	\$5.00
4 to 6 ins., rooted cuttings	1.00	8.00
6 to 8 ins., rooted cuttings	1.50	10.00
8 to 12 ins., rooted cuttings	2.00	12.50
Berckmans' Arborvitae		
Hetz Juniper		
Buxus japonica		
Ilex bullata		
PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings	\$1.00	\$5.00
4 to 6 ins., rooted cuttings	1.50	8.00
6 to 8 ins., rooted cuttings	2.00	10.00
8 to 12 ins., rooted cuttings	2.50	12.50
Pittosporum, green		
Buxus harlandi		
Ilex burfordii		
Podocarpus		
Pfitzer Juniper		

PRICES OF ABOVE LINING-OUT STOCK

	Per 100	Per 1000
3 to 5 ins., rooted cuttings	\$1.00	\$5.00
4 to 6 ins., rooted cuttings	1.50	8.00
6 to 8 ins., rooted cuttings	2.00	10.00
8 to 12 ins., rooted cuttings	2.50	12.50
Pittosporum, green		
Buxus harlandi		
Ilex burfordii		
Podocarpus		
Pfitzer Juniper		
PRICES OF ABOVE LINING-OUT STOCK		
3 to 5 ins., rooted cuttings	\$1.00	\$5.00
4 to 6 ins., rooted cuttings	1.50	8.00
6 to 8 ins., rooted cuttings	2.00	10.00
8 to 12 ins., rooted cuttings	2.50	12.50

FLOWERWOOD NURSERY, INC.

H. L. Lyons, Manager

P. O. Box 185 Phone 2-8791 Cairo, Ga.

LINING-OUT STOCK

	Per 100	Per 1000
Gardenia fortunei, 8 to 12 ins.	\$12.00	\$110.00
Gardenia fortunei, 12 to 18 ins.	15.00	140.00
Gardenia Mystery, 8 to 12 ins.	12.00	110.00
Gardenia Mystery, 12 to 18 ins.	15.00	140.00
Gardenia radicans, 6 to 8 ins.	12.00	110.00
Gardenia radicans, 8 to 12 ins.	15.00	140.00
Ilex crenata Bilozi, 6 to 8 ins.	17.00	150.00
Ilex crenata Bilozi, 8 to 12 ins.	20.00	180.00
Ilex crenata bullata, 6 to 8 ins.	17.00	150.00
Ilex crenata bullata, 8 to 12 ins.	20.00	180.00
Ilex crenata divaricata, 6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
Ilex crenata repandens, 6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
Ilex crenata rotundifolia, 6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
Ilex glabra, 8 to 12 ins.	15.00	140.00
Ilex opaca East Palatka, 8 to 12 ins.	15.00	140.00
Lonicera yunnanensis, 8 to 12 ins.	12.00	110.00
250 plants or more of one variety and size take the 1000 rate.		

BLACKWELL NURSERIES

Semmes, Ala.

CUT DOWN YOUR LOSSES

WITH THESE LINERS

In 2 1/2 in. peat pots.

	Each	100	1000
Euonymus vegetus	\$0.15	\$0.15	
Euonymus fortunei erecta	.16	.15	
Juniper, Andorra	.15	.14	
Taxus browni	.16	.15	
Taxus hunnevelliana	.17	.16	
Taxus andersonii	.16	.15	

HEAVY 2 1/2 IN. TRANSPLANTS

FROM OPEN-FIELD BEDS

Very good canning.

	Each	100	1000
Taxus cuspidata, 8 to 10 ins.	\$0.26	\$0.25	
Taxus browni, 8 to 10 ins.	.30	.27	
Taxus hunnevelliana, 8 to 10 ins.	.30	.27	
Taxus andersonii, 8 to 10 ins.	.30	.27	
Juniperus hetzi, 8 to 10 ins.	.30	.27	
Azalea mollis, 5 to 8 ins.	.20	.19	
Azalea mollis, 8 to 10 ins.	.26	.25	
Euonymus vegetus, 6 to 8 ins.	.23	.22	
Cash with order earns 2 per cent; 300 plants of one variety at 1000 rate.			

LINCOLN NURSERIES

Grand Rapids 4, Mich.

10,000 WAX LIGSTRUM LINERS

8 to 12 ins., \$12.00 per 100, \$100.00 per 1000.
IRVINGTON NURSERY, IRVINGTON, ALA.

LINING-OUT STOCK

	Per 100	Per 1000
Buffalo Berry (Shepherdia argentea), 2-yr. seedlings, in field		
15,000 18 to 24 ins.	\$50.00	
15,000 2 to 3 ft.	60.00	
Caragana arborescens, in storage		
25,000 9 to 12 ins.	15.00	
Hackberry (Celtis occidentalis), in storage		
9,000 9 to 12 ins.	12.50	
9,000 12 to 18 ins.	25.00	
10,000 18 to 24 ins.	25.00	
6,000 2 to 3 ft.	50.00	
1,000 3 to 4 ft.	75.00	
Native Plum (Prunus americana), in field		
50,000 No. 1, 3/16-in. and up	35.00	
25,000 No. 2, 2/16 to 3/16-in.	25.00	
Hansen Bush Cherry (Prunus besseyi), in storage		
3,000 6 to 12 ins.	30.00	

DYBIVG NURSERY, COLTON, S. D.

LINING-OUT STOCK

	Per 100	Per 1000
Deutzia gracilis, 3-yr., 10c.		
Euonymus alatus compactus, 3-yr., T., 8 to 12 ins., 17c.		
Euonymus vegetus, 3-yr., T., 15c.		
Ilex opaca pyramidalis, 10 to 12 ins., 35c; 12 to 18 ins., 45c. 4 yr., T.		
Ilex latifolia, 12 to 15 ins., 3-yr., T., 25c.		
Juniper, Andorra, 7 to 9 ins., 20c; 9 to 12 ins., 25c. 3-yr., T.		
Juniper, Pfitzer (green and blue), 7 to 9 ins., 25c; 9 to 12 ins., 30c. 3-yr., T.		
Taxus hicksii, 8 to 12 ins., 3-yr., T., 25c.		
Taxus cuspidata, 8 to 12 ins., 3-yr., T., 25c.		
Taxus cuspidata comp., 6 to 8 ins., 3-yr., T., 25c.		
Taxus brevifolia, 6 to 8 ins., 3-yr., T., 25c.		
Thuja globosa wardi, 7 to 9 ins., 20c; 9 to 12 ins., 25c. 3-yr., T.		

LITTLE MOUNTAIN VIEW NURSERIES

Rouge 84 Mentor, O.

2-YR. HEAVY LINERS, OPEN-BEDDED

	Each
20,000 Taxus cuspidata	20c
2,000 Taxus densiformis	20c
1,000 Taxus moonii	20c
1,000 Taxus hicksii	20c

1-YR. LINERS, OPEN-BEDDED

	Each
15,000 Taxus densiformis	15c
14,000 Taxus cuspidata	15c
2,000 Taxus hatfieldi	15c
3,000 Taxus moonii	15c
1,400 Arborvitae, dark American	15c

ROOTED CUTTINGS, OUT OF SAND

Ready June 1, 1960

	Each
10,000 Taxus densiformis	9c
15,000 Taxus cuspidata	9c
10,000 Taxus capitata, from tip cuttings	9c
Minimum order 250.	

LAURIENTE NURSERIES, INC.

464 Main St. Azawam, Mass.

LINING-OUT STOCK

	Per 100	Per 1000
Magnolia grand., 4 to 8 ins.	\$5.00	\$40.00
American Holly, 4 to 8 ins.	5.00	40.00
Cherry Laurel, 6 to 12 ins.	3.00	20.00
Cherry Laurel, 12 to 18 ins.	3.00	20.00
Live Oaks, 6 to 12 ins.	3.00	20.00
Live Oaks, 12 to 18 ins.	4.00	35.00
Photinia glabra, 6 to 12 ins.	6.00	50.00
Photinia serrulata, 6 to 18 ins.	4.00	30.00
Slash Pines, 6 to 12 ins.	3.00	20.00
Longleaf Pines, 1-yr.	2.00	15.00
Wax Ligustrum, rooted cuttings, 6 to 12 ins.	4.00	35.00

L. H. BUTTER NURSERY

Forest Hill, La.

QUALITY NURSERY-GROWN LINERS

FROM HARDY NORTHERN SEED

NORWAY MAPLE (Acer platanoides)

	Per 100	Per 1000
18 to 24 ins.	\$15.00	\$100.00
2 to 3 ft.	20.00	per 100
3 to 4 ft.	30.00	per 100
HARD MAPLE (Acer saccharum)		
18 to 24 ins.	15.00	per 100
2 to 3 ft.	20.00	per 100
3 to 4 ft.	30.00	per 100
PAWWOOD (American Linden)		
18 to 24 ins.	15.00	per 100
2 to 3 ft.	20.00	per 100
3 to 4 ft.	30.00	per 100

KROEGER'S NURSERY

Butterfield, Minn.

LINING-OUT STOCK

Junipers, Arborvitae, Cypress, Yews, Rhododendrons, Camellias, Azaleas, broad-leaved Evergreens, fruit, shade and flowering trees. Write for special price list.

BENEDICT NURSERY CO.

735 N. E. 87th Ave. Portland 15, Ore.

Surplus Stock

MAPLES

JAPANESE RED MAPLE
(Acer palmatum atropurpureum)
Every one a very good red.

Seed-grown Each 250 or
per 100 more

LIGHT GRADE

2-yr., light branched, 8 to 10 ins. \$0.30 \$0.28
2-yr., light branched, 10 to 12 ins. .35 .32
2-yr., light branched, 12 to 15 ins. .40 .38

HEAVY GRADE

2-yr., branched transplants,
6 to 9 ins. .45 .40
10 to 12 ins. .50 .45
12 to 15 ins. .55 .50
3-yr., field-grown, 8 to 12 ins. .55 .50
3-yr., field-grown, 12 to 15 ins. .80 .75
3-yr., field-grown, 15 to 18 ins. .95 .90
4-yr., bushy, 10 to 15 ins. 1.10 1.05

Any of the heavy grade if potted by
March 15 and allowed to make new growth,
will be salable by May.

Shipped dormant, packed in sphagnum.
A 20 per cent deposit on all orders,
balance before delivery or C.O.D.

Specializing in Japanese Red Maples 15 years.
12 BBBS Nursery Series

512 Route 130 Riverton, N. J.

SUGAR MAPLE SEEDLINGS

40,000 Acer saccharum, collected.
20,000 6 to 12 ins. \$20.00 per 1000
8,000 12 to 18 ins. 40.00 per 1000
6,000 18 to 24 ins. 65.00 per 1000
3,000 2 to 3 ft. 90.00 per 1000
2,000 3 to 4 ft. 25.00 per 100
500 4 to 5 ft. 35.00 per 100
500 5 to 6 ft., par. branch 75.00 per 100
Our seedlings are well-rooted, straight and
will compare favorably with nursery-grown
stock. Satisfaction guaranteed.

Terms: One third cash with order, 5 per
cent discount and free packing for cash in
full.

LAKE VIEW FRUIT FARM
Route 5 Coldwater, Mich.

NORWAY MAPLE

Straight trunks. Fine heads. Very fibrous
roots.

6 to 8 ft. 10-49 50-250
8 to 10 ft., 1 to 1 1/4-in. 4.05 3.25
9 to 11 ft., 1 1/4 to 1 1/2-in. 5.30 4.25
10 to 12 ft., 1 1/4 to 1 1/2-in. 7.00 5.50
11 to 13 ft., 1 1/4 to 2-in. 8.00 6.50

PRINCETON NURSERIES

Princeton, N. J.

SILVER MAPLE

SPECIAL

1 1/4 to 1 1/2-in. cal., 9 to 12 ft.
Straight and well-branched.
10 or more, \$2.00 each.

At our nursery, NO shipping.
Good fibrous roots, fresh, spring dug.
Order now. 25 per cent deposit will hold.

SECOR'S NURSERY
U. S. 20 Perry, O.

NORWAY MAPLE

2 to 2 1/2 ins., bare-root, \$9.00; B&B, \$12.00.
Liners, 5 to 6 ft., fine roots, 75c.
Hardy Evergreen lining-out stock.

BLODGETT NURSERIES

Perkasie, M. R. 1, Bucks Co., Pa.

SUGAR MAPLE

Each 10 to 50 50 to 100
8 to 10 ft., 1 to 1 1/4-in. cal. \$4.25 \$4.00
8 to 10 ft., 1 1/4 to 1 1/2-in. cal. 5.25 5.00
10 to 12 ft., 1 1/4 to 2-in. cal. 7.00 6.50
Ask for quotations on lots of more than 100.
Also submit want list on other shade trees.

WAYNESBORO NURSERIES

Waynesboro, Va.

LINING-OUT HARD OR SUGAR MAPLE
1 to 1 1/4-in. caliper, 7 to 8 ft.; stocky, well-
branched, tractor dug, with good roots, \$1.35
each. F.O.B. Box or trucking extra. Price
for 100 trees, in bales or boxes, \$1.50 each.

UNADILLA NURSERY FARMS

Johnson City, N. Y.

HARDY SUGAR MAPLE

TRANSPLANTS.
3 to 4 ft., \$2.00 per 10, \$18.00 per 100.
4 to 5 ft., \$3.00 per 10, \$25.00 per 100.
5 to 6 ft., \$4.50 per 10, \$40.00 per 100.
H. J. WESTERHOVEN & SON
R. 1, Box 393 Benton Harbor, Mich.

COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

More customers for you!
Over 9,500 subscribers, all active buyers,
see your ad in the American Nurseryman.

NANDINAS

Nandina seedlings, 2-yr. plants, \$20.00 per
1000. Skyline Gardens, 2112 Farley Rd., Bir-
mingham 9, Ala.

NANDINAS

Over 100,000 Nandinas in various sizes.

50 at 100 rate; 500 at 1000 rate.

3 to 5 ins., bed-grown .00.04 \$0.03
4 to 6 ins., bed-grown .06 .05
6 to 8 ins., bed-grown .08 .07
8 to 10 ins., bed-grown .10 .09
15 to 18 ins., B&B, field-grown. 1.10 .90
1 1/2 to 2 ft., B&B, field-grown. 1.25 1.00
2 to 2 1/2 ft., B&B, field-grown. 1.50 1.25
2 1/2 to 3 ft., B&B, field-grown. 2.00 1.50
heavy .200 1.50
3 to 4 ft., B&B, field-gr., heavy 2.50 2.00
Write for quotations on other items.
GILMORE PLANT & BULB CO.
Julian, N. C.

PACHYSANDRAS

LAST CALL! LAST CALL!

STRONG ROOTED CUTTINGS, ready now.

\$38.00 per 1000;

\$35.00 per 1000 for 5000 or more.

Check with order.

Prompt shipping. Satisfaction guaranteed.

TOWN & COUNTRY NURSERY
4202 Fordleigh Rd. Baltimore 15, Md.

PACHYSANDRA TERMINALIS

Per 100 Per 1000
1-yr., field-grown \$ 5.00 \$ 45.00
Lots of 3000 8.00 75.00
2-yr., field-grown 11.50 105.00
2 1/4-in., pot-grown 11.50 105.00
Free packing. Phone MOhawk 4-3923.
HANSEN BROS. NURSERIES, INC.
1268 Montgomery Ave. Narberth, Pa.

PACHYSANDRAS

1-yr.-old, frame-grown, well-rooted cut-
tings, \$5.50 per 100, \$43.00 per 1000; \$40.00
per 1000 for 5000 or more. Order now for
early spring delivery.

BRUNDAGE & GUTHRIE
123 Franklin St. Tarrytown, N. Y.

Pachysandras, strong plants, grown in soil
frames with light shade. First-class stock,
\$6.50 per 100, \$53.00 per 1000; \$49.00 per
1000 for 5000 or more, including good pack-
ing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100,
\$40.00 per 1000.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS

1-yr., field-grown, \$60.00 per 1000.
HILLCREST GREENHOUSES
Miller Park Franklin, Pa.

PEONIES

PEONIES

Adolphe Rousseau, Baroness Schroeder,
Duchesse de Nemours, Festiva Maxima, Sa-
rah Bernhardt, Lady Alex. Duff, Marie Le-
moine, Mons. Jules Elie, Reine Hortense.
3-yr.-old, whole clumps, not divided, 6
eyes and up, \$75.00 per 100, \$700.00 per 1000;
divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00
per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

GRAFTED TREE PEONIES

Red, white, pink, purple, 1-yr., \$10.00 per
10; 2-yr., \$15.00 per 10.
A yellow tree Peony for \$1.50 with every
10 others.
ATHA GARDENS, WEST LIBERTY 6, O.

For \$4.00

you can offer that surplus in a
classified ad of 10 lines on these
pages—quickly and easily turning
stock into cash.

At 40c PER LINE

you can keep a list of specialty
items before trade buyers through
the selling season at small cost.

Send your copy (count 6 aver-
age words to line) for the April
1 issue to reach us March 11.

Forms for the April 15 issue will
close March 25.

AMERICAN NURSERYMAN
343 S. Dearborn St. CHICAGO 4, ILL.

PEONIES

Healthy 3 to 5-eye divisions,
\$3.50 per 10, \$30.00 per 100.

AURORA, white
DAUBENTON, light pink
DUKE OF CLARENCE, rose
GRANDIFLORA NIVEA PLENA, white
AUGUSTE LEMONIER, bright red
ETTA, pink
MME. de VERNEVILLE, white
FELIX CROUSSE, red
VENUS, shell-pink
EDULIS SUPERBA, pink
GENERAL BERTRAND, pink
QUEEN VICTORIA, white
THE MOOR, purple
CLARA BARTON, white
PINK PEONIES, not named, 25c each
WHITE PEONIES, not named, 30c each
RED PEONIES, not named, 30c each
PARKER'S PEONY FARM & NURSERY
Fayetteville, N. Y.

PEONY ROOTS

Excellent young stock Peonies, 3 to 5 eyes.
Felix Crousse, red \$35.00 per 100
Karl Rosenfeld, dark red 35.00 per 100
Francois Ortegat, medium red 35.00 per 100
Festiva Maxima, white 30.00 per 100
Edulis Superba, dark rose 30.00 per 100
Sarah Bernhardt, light pink 30.00 per 100
Albert Crousse, pink 30.00 per 100
Tourangelle, bluish 30.00 per 100
Avalanche, white 30.00 per 100
In 1000 lots of one variety, write for spe-
cial price.

JOHN M. ELZINGA

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TREE PEONIES

1-yr. grafts \$0.90
IMPERIAL NURSERIES
P. O. Box 1000 East Hartford, Conn.

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PHLOX

Field-grown, sandy loam soil; healthy,
state inspected stock.

Tall varieties: (White), White Admiral,
World Peace, Rembrandt, Mary Louise,
(Pink), E. I. Farrington, Dresden China,
American Beauty, B. Symes Jeune, Prime
Minister, Eva Forester, (Salmon), George
Stipp, Sun Ray, Sir John Falstaff, July Glow,
Thor, (Red) Africa, Leo Schlageter, Chel-
talin, San Antonio, (Purple) Fuchsia, Fru-
ella, Border Gem, (Blue) Bluetie, Caroline
Vandenberg, Starlight, Blue Boy, Rosy Blue,
Progress.

10 100 250 or
No. 1 grade \$0.14 \$0.12 \$0.10
No. 2 grade07 .06 .05
Subulata (Creeping Mose): Alba, white;
White Delight, Emerald Cushion Pink, Em-
erald Cushion Blue, Amoena, pink; Atro-
purpurea, crimson.

10 100 more
Liners \$0.07 \$0.06 \$0.05
Medium grade10 .09 .08
Heavy grade15 .12 .10
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PHLOX SUBULATA

(Creeping Phlox)

An excellent choice of varieties.

Transportation charges prepaid by us.

Alba, pure white.
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Butterfly, lilac bluish, showy purple eye.
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Sensation, pretty bright pink with red eye.
Transplants, \$9.50 per 100, \$90.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of same variety at 1000 rate.
Prices are delivered, we pay transportation.
Careful packing and each variety labeled.

Terms: Cash with order.

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Ask for our new listing on field-grown gar-
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ask for our special quantity discount.

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Watch Your Results From
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PIERIS JAPONICA (ANDROMEDA)
We collect our own seed from the best and
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Each 1000
3-yr., TT, heavy, 9 to 12 ins. \$0.50 \$0.45
Heavy, 18 to 24 ins. B&B. 2.50 . . .
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(PIERIS JAPONICA)**

One of the most beautiful broad-leaved
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2 to 3-in., 1-yr., T. \$ 8.00 \$ 75.00
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Each, 1000
1-yr., seedlings \$0.08
1-yr., bedded, 3 to 6 ins. 10
2-yr., open field rows, 6 to 8 ins. 30
3-yr., open field rows, 9 to 12 ins. 45
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BOX PRIVET
Very thick, heavy, very dwarf. Looks very
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5000 9 to 12 ins. \$2.00 \$10.00
8500 12 to 15 ins. 2.25 14.00
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3000 18 to 25 ins. 3.50 22.00
Ask for prices on 1000 lots. 15 to 18-in.
grade carry 10 to 25 leads.

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**GENUINE AMUR RIVER NORTH
PRIVET CUTTINGS**
Wood cut from proven mother blocks, not
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All hand-sorted, same high grade as we
plant. Our cuttings grow into pretty dollars
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5000 for \$15.00. Cash, packing free.
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GENUINE AMUR RIVER NORTH PRIVET
1-yr., 9 to 18 ins., 2 canes or more, cut back
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This is the best Privet we have ever grown.
Free packing on all orders of 10,000 or
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Thousands of Amur River North Privet.
Per 100 Per 1000
18 to 24 ins. \$3.00 \$25.00
2 to 3 ft. 4.00 30.00
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Immediate shipment. Satisfaction guaran-
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EARLY RED
CRENATO-SERRATA GRABERI
8 to 12 ins., potted \$175.00
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FREE PACKING.
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DEXTER RHODODENDRONS
Now after 30 years, we are propagating
the famous Dexter collection. Only time
can tell quality. The Dexter stock plants
average age is 30 years, representing the
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careful neglect, no watering, no spraying.
From the best of the best, we have selected
a colorful group (many fragrant). This is
Dexter estate quality—the test of time.

Ready May 1, vigorous rooted cuttings in
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Also, 1 and 2-yr. liners at nursery, plus
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First offering from the home of Dexter hy-
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outside, no heat, cross pollinated, hand-
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Your investment grows tenfold in a few
years. Dexter, a famous name in Rhododen-
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RHODODENDRON MAXIMUM

Nursery-grown and collected, 2 to 7 ft.
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CURTIS NURSERIES, INC.
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Hardy Rhododendron liners, rooted cut-
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Catawbiense album, white
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Ignatius Sargent, light rose-crimson
Parson's grandiflorum, dark purplish rose
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Roseum elegans, rose-lilac
\$75.00 per 100, \$325.00 per 500, \$600.00 per
1000.
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RHODODENDRON

of hardy ponticum, catawbiense parentage.
Good caliper and foliage. For understock,
growing on or over the counter sales. Twice
transplanted, lightweight, firm ball.
6 to 8 ins., \$15.00 per crate of 50.
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Order by crate only. Expert, frostproof,
lightweight crating free. Cash with order.
State shipping method.
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Named crosses, hand-pollinated. Each, 1000
1-yr., seedlings \$0.25
1-yr., bedded, 4 to 8 ins.45
2-yr., open field rows, 9 to 12 ins.60
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budded \$2.00 to 3.00
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The best of the old and the cream
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QUALITY, QUANTITY, VARIETY.
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Excellent quality,
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100,000 hybrid Rhododendrons, any variety,
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2-yr., field-grown, state inspected; dug and
shipped fresh from our own fields. Tied in
bundles of 10 of a kind and variety. Terms:
Cash, or 25 per cent cash and balance C.O.D.
Packing free.
Priced each. F.O.B. Lindale or Tyler.
100 or more 300 or more
No. 1 grade.....35c No. 1 grade.....32c
No. 1 1/2 grade.....27c No. 1 1/2 grade.....25c
No. 2 grade.....20c No. 2 grade.....18c
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Better Times Pink Radiance
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Red Radiance Shell Radiance
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Crimson Glory Picture
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TWO-TONE FLORIBUNDAS
Pres. Herbert Hoover Ideal
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Condesa de Sastago Katharina Zelmet
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Frau Karl Druschki Blaze
White Amer. Beauty Caledonia
K. A. Victoria Red Radiance
Koenigin Louise Pink Radiance
Snowbird Paul's Scarlet
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Golden Charm Tailsman
Soeur Therese White Amer. Beauty
Yellow Tailsman Poinsettia
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10 BEST MINIATURES
Little "gems" for pot plants, cut flowers
and corsage work. Tinker Bell, bright pink;
Baby Gold Star, best true yellow; Pixie,
smallest fully double white; Robin, double,
deep red; Tom Thumb, crimson, white at
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Midget, 1/2-in. bloom, deep rose, fragrant;
Sweet Fairy, rich pink to light pink, frag-
rant; Red Imp, deep crimson, fully double;
Bo-Peep, arbutus-pink, double. Write for
prices.

THE CONARD-PYLE COMPANY

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Krider's is a well-known source for a com-
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Roses at reasonable prices; Roses that you
can depend on. Order from this ad for im-
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We offer hardy, California-grown Roses.
They are bigger, heavier branched and more
evenly rooted, ideal for potting.

For individual machine-wrapped Roses
complete with color picture on each bush,
add 15c per plant.

PATENTED HYBRID TEA ROSES

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Each, 10 20 100
Blossomtime, pink climber. \$1.50 \$1.37 \$1.30
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Kordes Perfecta, white and pink 1.85 1.75 1.55
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Mojave, orange 1.50 1.37 1.30
New Yorker, red 1.40 1.25 1.20
Peace, yellow and pink. 1.40 1.25 1.20
Pink Peace 1.65 1.50 1.40
Sutter's Gold, deep gold. 1.25 1.12 1.05
White Knight 1.64 1.50 1.40
Buccaneer, canary-yellow. 1.40 1.25 1.20
Montezuma, rose-salmon 1.50 1.37 1.30
Queen Elizabeth, pink. 1.40 1.25 1.20
Starfire, currant-red 1.65 1.50 1.40
HARDY FLORIBUNDA ROSES
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Circus, multicolor \$1.40 \$1.25 \$1.20
Fashion, coral and red. 1.10 1.00 .95
Fireking, brilliant red 1.40 1.25 1.20
Floradora, orange60 .55 .50
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Gold Cup, canary-yellow 1.40 1.25 1.20
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Jimmy Cricket, orange. 1.10 1.00 .95
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Spartan, orange-red 1.50 1.37 1.30
World's Fair, scarlet.55 .50 .55
Prices on Roses below including climbers:
Per 10 Per 100
First-class 2-year, No. 1, finest quality \$5.50 \$50.00
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Crimson Glory Eclipse
Etoile de Hollande Golden Charm
McGregory's Scarlet Yellow Condesa
Poinsettia POLYANTHAS
Betty Upchurch Golden Salmon
Picture Orleans
The Doctor Candesa de Sastago
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F. K. Druschki Good News
K. A. Victoria Tailsman

CLIMBING ROSES
Blaze, red everbl. New Dawn, pink
Gold Rush, yellow everblooming
everblooming White Dawn, everbl.
Am. Beauty, red Coral Pillar, everbl.
All orders of 50 or more Roses, at least
10 of a kind, may take the 100 rate.
THE KRIDER NURSERIES, INC.
Middlebury, Ind.
Phone 81.

EVERBLOOMING MINIATURE ROSES
Beautiful little darlings, like Hybrid Teas,
Seldom over 10 ins. tall. We ship pruned
own-root, 2 1/2-in. pot size plants.

*Recommended for forcing Per 10 Per 100
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Polka Dot, finest big white 6.50 60.00
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*Pink Fairy, cameo-pink 5.00 45.00
*Pompon de Paris, double pink. 4.50 40.00
Roulette, Swiss alpine pink 5.00 45.00
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F.O.R. Tipp City, O.

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Glittering packs to display. Bare-root for
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Big, thrifty plants, guaranteed to please your most critical customers.

Priced to meet competition.
Shipped when you need them.
Standard and patent.

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A wide assortment to choose from.
Write, phone or wire for price list,
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Finest-quality, field-grown plants.
Over 100 varieties of patented and standard bushes, including Hybrid Teas, floribundas, polyanthas and climbers. These bushes were grown under personal supervision, using the latest methods for black spot and insect control. Write for a free list before you buy.

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BARE-ROOT AND PREPACKAGED,
PATENT AND STANDARD ROSES.
NEW LONDON ROSES
"The Rose Nursery"

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BARE-ROOT AND PACKAGED.
FULL SELECTION.

Patented and nonpatented varieties.

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Specializing in Roses Since 1923

TREE ROSES

We have a good supply of top-quality, Western-grown tree roses, including the popular varieties, Garden Party, Korde Perfecta, Fire King, Peace, Pink Peace and Sterling Silver.

Write for complete list.
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FIELD-GROWN ROSEBUSHES

Standard varieties, No. 1, 50c. Patented var. available at fixed prices. Budded on seedlings with a fine root system, ideal for potting or home planting. These roses are grown by us in Delaware. Price and variety list on request.

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MULTIFLORA ROSE
Top quality plants for living fences and conservation plantings.

Root-crown caliper	Approximate height	Per 1000
2 to 3 mm.	8 to 15 ins.	\$12.50
3 to 5 mm.	12 to 18 ins.	17.50
3 to 8 mm.	12 to 24 ins.	22.50
5 to 12 mm.	18 to 36 ins.	28.50

UNDERSTOCK. Straight shanked seedlings grown especially for understock. Nematode free. Expertly graded to suit the most particular.

4 to 6 mm.	\$27.50 per 1000
2 to 4 mm.	17.50 per 1000

The above prices are F.O.B. Griggsville, Ill., nursery. All tops cut back to 10 ins. at shipping unless otherwise requested. Our storage facilities are the best. ORDER NOW for spring delivery. 10 per cent discount in lots of 10,000 or over; special quotations on larger quantities. For less than 1000 add 30 per cent. Packing at cost.

FARM LANDSCAPE CO.
Route 3 Urbana, Ill.

SUPERB ROSA MULTIFLORA

1-yr., rooted cuttings, graded extra heavy, tops cut back	Each, 100 1000
12 to 18 ins.	\$0.05 \$0.03
18 to 24 ins.	.06 .04
24 to 30 ins.	.15 .10
2-yr., 36 to 42 ins.	.45 .35

No. 1, de-eyed budding stock, perfect root system .06 .04
QUANTITY DISCOUNT ON ABOVE
5000 10 per cent; 10,000 20 per cent.
25,000 25 per cent.

FELIX ZAMPINI & SONS NURSERY
(Rose growers and nurserymen)
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THORNY ROSA MULTIFLORA

We have a good supply for spring.
2 to 3 mm. caliper \$10.00 per 1000
3 to 6 mm. caliper 15.00 per 1000
Red-run, 2 mm. up 12.50 per 1000
No packing charge. F.O.B. Mt. Vernon, Ill.
Write for quotations on larger amounts.

MESTEL NURSERY

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MULTIFLORA ROSE

(Rosa multiflora japonica)

Hardy, northern-grown stock of highest quality. Upright thorny type for living fences, conservation and budding understock.

Our sandy soil produces the finest root system. Nematode-free.

Root-stem caliper	Approximate height	Per 1000
2 to 3 mm.	10 to 15 ins.	\$12.50
3 to 8 mm. (sold out)	12 to 24 ins.	22.50
4 to 6 mm. for budding (sold out)	15 to 24 ins.	27.50

All stock will be shipped with tops cut back to about 10 ins. unless stated otherwise. F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent. Orders of 10,000 or more earn 10 per cent discount. We also have some excellent 2-yr.-old transplanted stock, about 3 to 4 ft. in height, extra strong, at 30c each, \$25.00 per 100.

BROOKVILLE NURSERIES

Box 53, Northern Blvd. Glen Head, N. Y.

MULTIFLORA ROSE

(Rosa multiflora japonica)

Upright, thorny type, northern-grown. Conservation grade, 3 mm. and up.

1000 to 10,000	\$22.00 per 1000
10,000 to 50,000	\$20.00 per 1000
50,000 to 100,000	\$18.00 per 1000
100,000 and up	\$16.00 per 1000

Stock held in refrigerated storage for immediate delivery. Shipments F.O.B. Manchester, Conn.

C. R. BURR & CO., INC.
276 N. Main St. Manchester, Conn.

THORNY ROSA MULTIFLORA

Straight shanked seedlings graded for understock.

4 to 6 mm.	\$27.50 per 1000
3 to 4 mm.	17.50 per 1000
2 to 3 mm.	12.50 per 1000

Small conservation 12.50 per 1000
No packing charge. F.O.B. Milford, Del.
Tops cut back to about 16 ins. Special quotations on large amounts.

DANEGGER'S HI-WAY NURSERY, INC.
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SEEDS

CHINESE ELM SEED, 1960 CROP

High quality, dependable source.
We have filled every order we have booked in 14 consecutive years.

Priced per lb., including packing.	
1 to 5 lbs.	\$1.40
6 to 10 lbs.	1.25
Over 10 lbs.	1.10

McCANCE NURSERIES
Route 3 North Platte, Neb.

Seeds, new crop: Photinia serrulata, lb., \$3.50. Nandina domestica, red berries; lb., \$1.00. Ligustrum, japonicum, lucidum, amurense (true Amur River North Privet), lb., \$1.00. Red-berried Pyracantha, lb., \$1.00. If by mail, add postage. No C.O.D.
Mountville Nurseries, Mountville, Pa.

TREE SEEDS

Evergreens and deciduous. Colorado Spruce, oz., \$1.70; 4 ozs., \$6.50; lb., \$16.00. French strain, Scotch Pine, oz., \$1.00; 4 ozs., \$3.00; lb., \$8.50. Free list. 50 other varieties.

MELLINGER'S, INC.
Box AN North Lima, O.

COLORADO EVERGREEN SEEDS

1959 crop.
Blue Spruce (glaucia), \$9.25 per lb.; forest-run, \$8.25 per lb. Concolor Fir, \$3.25 per lb.
ZENTZ SEED CO., Silver Cliff, Colo.

VICTORIA RHUBARB SEED

1959 crop seed, hand-picked.
Uncleaned, 75c per lb.
ASHCRAFT'S PLANT NURSERY
Copenish, Mich.

SHRUBS AND TREES

EVERGREEN LINERS

TAXUS
600 Taxus cuspidata, 3 ins., potted, 2-yr., heavy \$32.50

850 Taxus cuspidata, 3 ins., potted, 2-yr., heavy (upright hedge type) 27.50

600 Hatfield Yew, 3 ins., potted, 3-yr., heavy (upright hedge type) 37.50

1750 Hatfield Yew, 3 ins., potted, 2-yr. (upright hedge type) 27.50

800 Halicran Yew, 3 ins., potted, 2-yr. 32.50

JUNIPERS

700 Compact Pfitzer, 3 ins., potted, 2-yr., heavy 27.50

1700 Andorra Juniper, 3 ins., potted, 2-yr., heavy (per 1000, \$250.00) 27.50

SHRUB LINERS

500 Deutzia gracilis, 2 1/2 ins., potted, 2-yr., 8 to 10 ins. 18.00

200 Redtwig Dogwood, 3 ft., potted, 2-yr., 18 to 24 ins. 25.00

All of the above plants are ready for field planting. Unshaded after the first year.

WEST END GREENHOUSES

At Northhaden, Landscape
Box 82, 1200 W. Goodwin Urbana, Ill.

ROOTED CUTTINGS, 1-YR. BEDED

Per 100 Per 1000

Azalea hinodegiri \$12.00 100.00
Azalea Hino-Crimson 12.00 100.00
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Chamaecyparis cyano viridis, 4 to 6 ins. 12.00

Chamaecyparis lutescens, 4 to 6 ins. 10.00

Ilex bullata, 4 to 6 ins. 10.00 90.00

Ilex crenata, 4 to 6 ins. 12.00 90.00

Juniper, Andorra, 4 to 8 ins. 12.00 90.00

Juniperus hibernica, 4 to 6 ins. 12.00

Juniperus hetzi, 4 to 6 ins. 12.00 100.00

Juniper, Pfitzer, 4 to 6 ins. 12.00 100.00

Juniperus stricta, 4 to 6 ins. 12.00 100.00

Juniperus communis aurea, 4 to 6 ins. 12.00

Pachysandras 4.00 35.00

Pyracantha lalandi, 4 to 8 ins. 10.00 90.00

Pyracantha lalandi (potted), 4 to 8 ins. 15.00

Pteris japonica, 4 to 8 ins. 12.00 100.00

Retinispora plumosa aurea, 6 to 8 ins. 10.00 90.00

Retinispora plumosa, 6 to 8 ins. 10.00 90.00

Taxus brevifolia, 4 to 6 ins. 10.00 100.00

Taxus browni, 4 to 6 ins. 12.00 100.00

Taxus brevifolia, 4 to 6 ins. 12.00 100.00

Taxus capitata, tips, 6 to 8 ins. 15.00 125.00

Taxus cuspidata, 4 to 6 ins. 12.00 100.00

Taxus cuspidata F&F compacta, 4 to 6 ins. 15.00 125.00

Taxus hatfieldi, 4 to 6 ins. 12.00 100.00

Taxus henryi, 4 to 6 ins. 15.00 125.00

Taxus hicksii, 4 to 6 ins. 12.00 100.00

Taxus intermedia, 4 to 6 ins. 12.00

Taxus Moon's columnaris, 4 to 6 ins. 12.00 100.00

Taxus repandens, 4 to 6 ins. 12.00 100.00

Thuja globosa, 5 to 8 ins. 12.00 100.00

Thuja pyramidalis, 4 to 6 ins. 10.00 90.00

Thuja nigra, 5 to 8 ins. 10.00 90.00

THORNY CUTTINGS, 2-YR., BEDED
Juniper, Hetz, 8 to 12 ins. \$20.00 \$200.00

Retinispora pliesifera aurea, 8 to 12 ins. 20.00

Retinispora plumosa aurea, 8 to 12 ins. 20.00 200.00

Retinispora plumosa, 8 to 12 ins. 20.00 200.00

Pteris japonica, 6 to 10 ins. 20.00 200.00

Taxus cuspidata, 6 to 8 ins. 25.00 200.00

Taxus cuspidata F&F compacta, 6 to 8 ins. 20.00

Taxus browni, 6 to 8 ins. 25.00 200.00

Taxus hicksii, 6 to 8 ins. 25.00 200.00

Taxus brevifolia, 6 to 8 ins. 25.00 200.00

Thuja nigra, 8 to 12 ins. 20.00 200.00

Thuja globosa, 8 to 10 ins. 20.00 200.00

1-YR. SEEDLINGS
Taxus capitata \$5.00 \$40.00

2-YR. SEEDLINGS
Taxus capitata (grown from Japanese imported seed).

4 to 6 ins. \$7.00 \$60.00
(Special price on large quantity.)

2-YR. SEEDLINGS, TRANSPLANTS
Azalea mollis \$12.00 \$100.00

Azalea mucronulata, 4 to 8 ins. 15.00 125.00

3-YR. SEEDLINGS
Balsam Fir, 4 to 6 ins. \$5.00 \$40.00

White Spruce (Picea), 4 to 8 ins. 5.00 40.00

Pinus mugo (Tyrolean), 3 to 5. 6.00 50.00

Pinus strobus, 6 to 10 ins. 6.00 50.00

Tsuga diversifolia, 4 to 6 ins. 7.00 60.00

Concolor Fir, 4 to 6 ins. 8.00 70.00

3-YR. SEEDLINGS, TRANSPLANTED
Taxus capitata, 5 to 8 ins. \$12.00 \$100.00

Tsuga canadensis, 4 to 7 ins. 8.00 70.00

Pinus strobus, 6 to 8 ins. 8.00 70.00

Picea engelmanni, 3 to 5 ins. 7.00 60.00

Picea rubens, 3 to 6 ins. 7.00 60.00

Picea excelsa, 4 to 6 ins. 6.00 50.00

Picea pungens glauca, 4 to 6 ins. 8.00 70.00

Concolor Fir, 4 to 6 ins. 10.00 80.00

4-YR. SEEDLINGS, TRANSPLANTED
Leucothoe catesbaei, 10 to 14 ins. \$35.00

Picea engelmanni, 5 to 8 ins. 8.00 \$ 70.00

Picea excelsa, 6 to 12 ins. 8.00 70.00

Picea pungens glauca, 6 to 10 ins. 12.00 100.00

Thuja occidentalis, 8 to 12 ins. 12.00

Tsuga canadensis, 5 to 8 ins. 10.00 100.00

Tsuga canadensis, 8 to 10 ins. 15.00 140.00

Tsuga canadensis, 10 to 12 ins. 20.00 190.00

POT-GROWN GRAFTS
Acer palmatum atropur-
pureum \$ 65.00

Fagus sylvatica riversi 60.00

Picea moerhousii 100.00

Picea pungens glauca hoopsii 125.00

Picea kosteriana 160.00

Pinus cembra 60.00

VAN DINE NURSERY
287 Berdan Ave. Wayne, N. J.

WHITE-FLOWERING REDBUD
(Cercis canadensis alba)
See our display ad on page 100.
for this unusual tree.

WARREN AND SON NURSERY
R. 11, Box 841 Oklahoma City 10, Okla.

RARE SHADE TREE LINERS
Increase your sales with our quality
flowering, shade, shrubs, fruit tree liners.
Reasonable prices. Send want list.

GLOBE NURSERIES
Box 249 McMinnville, Tenn.

SEEDLINGS		100	1000
Berberis thunbergii atropurpurea, 2-yr. sdg., 12 to 15 ins.	\$10.00	\$75.00	
Cornus florida, 1-yr. sdg., 8 to 12 ins.	6.00	50.00	
Crataegus (cordata) phaeopyrum, 1-yr. sdg., 6 to 12 ins. up.	6.00	50.00	
Gymnocladus dioica, 1-yr. sdg., 8 to 12 ins.	15.00		
Juniperus virginiana, 1-yr. sdg.	6.00	50.00	
Koeleruteria paniculata, 1-yr. sdg., 6 to 8 ins.	10.00	85.00	
Myrica pensylvanica, 1-yr. sdg., 4 to 8 ins.	6.00	50.00	
Picea abies, 2-yr. sdg., 4 to 8 ins.	5.00	40.00	
Picea pungens glauca, 2-yr. sdg., 4 to 6 ins.	6.00	45.00	
Picea pungens glauca, 3-yr. transplants, 4 to 8 ins.	12.00	100.00	
Pinus thunbergii, 2-yr. sdg., 4 to 8 ins.	6.50	50.00	
Pseudotsuga taxifolia glauca, 1-yr. sdg.	6.50	50.00	
Quercus palustris, 2-yr. sdg., 18 to 24 ins. up.	15.00	125.00	
Sophora japonica, 1-yr. sdg., 6 to 10 ins.	15.00	120.00	
Taxus capitata, 2-yr. sdg., 3 to 6 ins.	10.00	90.00	
Thuja occidentalis, 2-yr. sdg., 4 to 8 ins.	6.00	50.00	
Tsuga caroliniana, 3-yr. sdg., 6 to 8 ins.	12.00	100.00	
Ulmus pumila, 1-yr. sdg., 8 to 12 ins. up.	2.50	20.00	
Viburnum dentatum, 2-yr. sdg., 18 to 24 ins.	15.00	125.00	
Zelkova serrata, 1-yr. sdg., 12 to 18 ins.	12.50	100.00	
ROOTED CUTTINGS FROM 2 1/2-IN. POTS			
Azalea Delaware Valley White, 3-yr. sdg.	\$3.00	\$20.00	
Berberis julianae, 3-yr. sdg.	3.00	20.00	
Berberis thunbergii atropurpurea, 3-yr. sdg.	3.00	20.00	
Berberis verruculosa, 3-yr. sdg.	3.50	25.00	
Buxus handsworthii, 3-yr. sdg.	3.00	20.00	
Chamaecyparis filifera aurea, 3-yr. sdg.	3.00	20.00	
Chamaecyparis plumosa Gold, 3-yr. sdg.	3.00	20.00	
Dust, 3-yr. sdg.	3.00	20.00	
Chamaecyparis plumosa, 3-yr. sdg.	3.00	20.00	
Cotoneaster adpressa, 3-yr. sdg.	3.00	20.00	
Cotoneaster conspicua decedua, 3-yr. sdg.	3.00	20.00	
Cotoneaster horizontalis, 3-yr. sdg.	3.00	20.00	
Cotoneaster horizontalis, 3-yr. sdg.	3.00	20.00	
Franklinia alatamaha, 3-yr. sdg.	5.00	40.00	
Ilex crenata helleri, 3-yr. sdg.	3.00	20.00	
Ilex crenata hetzi, 3-yr. sdg.	3.00	20.00	
Ilex glabra, 3-yr. sdg.	3.00	20.00	
Ilex opaca femina, 3-yr. sdg.	5.00	40.00	
Ilex opaca mascula, 3-yr. sdg.	5.00	40.00	
Juniperus horizontalis compacta, 3-yr. sdg.	3.00	20.00	
Magnolia rustica rubra, 3-yr. sdg.	4.50	35.00	
Pieris japonica, 3-yr. sdg.	3.00	20.00	
Prunus laurocerasus, 3-yr. sdg.	3.00	20.00	
Pyracantha coccinea lalandi, 3-yr. sdg.	3.00	20.00	
Pyracantha coccinea (lowboy), 3-yr. sdg.	3.00	20.00	
Taxus baccata repandens, 3-yr. sdg.	3.50	25.00	
Taxus cuspidata aurea, 3-yr. sdg.	3.50	25.00	
Taxus cuspidata capitata, 3-yr. sdg.	3.50	25.00	
Taxus cuspidata compacta, 3-yr. sdg.	3.50	25.00	
Taxus cuspidata densiformis, 3-yr. sdg.	3.50	25.00	
Taxus media browni, 3-yr. sdg.	3.50	25.00	
Taxus media clifforti, 3-yr. sdg.	3.50	25.00	
Taxus media henryi, 3-yr. sdg.	3.50	25.00	
Taxus media hicksii, 3-yr. sdg.	3.50	25.00	
Taxus media vermeulenii, 3-yr. sdg.	3.50	25.00	
Thuja occidentalis globosa, 3-yr. sdg.	3.00	20.00	
Thuja occidentalis globosa (Howe type), 3-yr. sdg.	3.00	20.00	
Thuja occidentalis globosa novum, 3-yr. sdg.	3.00	20.00	
Thuja occidentalis pyramidalis, 3-yr. sdg.	3.00	20.00	
Thuja occidentalis uraniana, 3-yr. sdg.	3.50	25.00	

FOR GRAFTED STOCK, SEE DISPLAY AD
HESS' NURSERIES
 P. O. Box 128 Wayne, N. J.

LANDSCAPE SIZE MATERIALS	
Taxus media hatfieldi, 18 to 24 ins.	\$2.75
24 to 30 ins.	3.25
Taxus cuspidata, 15 to 18 ins.	2.25
18 to 24 ins.	2.75
Taxus intermedia, 18 to 24 ins.	2.75
24 to 30 ins.	3.50
Taxus baccata repandens, 15 to 18 ins.	3.75
18 to 24 ins.	4.75
Taxus hicksii, 18 to 24 ins.	2.75
24 to 30 ins.	3.25
Ilex crenata, 18 to 24 ins.	2.25
Pfitzer Juniper, 18 to 24 ins.	2.25
24 to 30 ins.	2.25
American Boxwood, 18 to 24 ins.	1.25
Pieris japonica, 15 to 18 ins.	2.25
18 to 24 ins.	3.25
Rhododendron hybrida (named varieties), 12 to 15 ins.	2.00
15 to 18 ins.	3.00
18 to 24 ins.	3.75
Ilex opaca (female), 3 1/2 to 4 ft.	6.25
4 to 4 1/2 ft.	6.25
Berberis julianae, 18 to 24 ins.	2.50
24 to 30 ins.	3.25

TURNER'S LINCOLN WAY NURSERY
 R. D. 2, West Coatesville, Pa.
 1 1/2 miles west of Coatesville on route 30.

EVERGREENS

SPECIAL SURPLUS LIST

Arborvitae	Each	100	1000
American, 2-yr., bed	\$0.18	\$0.15	
Globe, 2-yr., bed	.18	.15	
3-yr.	.22	.20	
8 to 12 ins., 5-yr.	.55	.50	
Pyramidal, 2-yr., bed	.18	.15	
3-yr.	.22	.20	
18 to 24 ins., 5-yr.	.55	.50	
Junipers, Andorra, 3-yr.	.22	.20	
fastigiata, 3-yr.	.22	.20	
18 to 24 ins., 5-yr.	.55	.50	
hetzi, 2-yr., bed	.18	.15	
15 to 18 ins., 5-yr.	.60	.55	
Pfitzer, 2-yr., bed	.18	.15	
3-yr.	.22	.20	
12 to 15 ins., 4-yr.	.38	.32	
15 to 18 ins., 5-yr.	.55	.50	
Savin, 2-yr., bed	.18	.15	
Pine, Mugho, 10 to 12 ins.	.45		
Taxus cuspidata, 10 to 12 ins., 5-yr.	.90	.80	
capitata, 12 to 15 ins., 6-yr.	1.25	1.10	
hicksii, 10 to 15 ins., 6-yr.	1.25	1.10	
Buonymus erectus, 2-yr., bed	.15	.12	
3-yr., field	.32	.30	

FLOWERING SHRUBS

Flowering Almond, 18 to 24 ins.	.40	.35
Forsythia spectabilis, 4 to 5 ft.	.45	.40
Philadelphus virginialis, 15 to 18	.20	.18

SHADE TREES

Chinese Elm, 1 to 1 1/2-in.	1.00	
1 1/2 to 2-in.	1.50	
2 to 2 1/2-in.	2.00	
2 1/2 to 3-in.	2.50	
Sycamore, 5 to 6 ft.	.50	.45

European White Birch

1 1/2 to 2 ins. B&B	\$11.00	\$10.00
2 to 3 ins. B&B	17.50	16.00
3 to 3 1/2 ins. B&B	20.00	

Silver Maple, 6 to 12 ins. seedlings... \$ 2.00 per 100, \$10.00 per 1000
 12 to 24 ins. ... 4.00 per 100, 20.00 per 1000
 2 to 3 ft. ... 10.00 per 100, 50.00 per 1000
 3 to 4 ft. ... 15.00 per 100, 75.00 per 1000
 4 to 5 ft. ... 20.00 per 100, 100.00 per 1000
 6 to 8 ft., T. ... \$0.75 \$0.65
 8 to 12 ft., T. ... 1.50 1.35
 Free boxing and packing. One-fourth payment will hold your order for spring. 2 per cent discount, cash with order. Prices are subject to change without notice.
 Write for price list.
RICHARDSON NURSERIES, INC.
 53947 Fir Rd., R. 1 Granger, Ind.

SPRING 1960 WHOLESALE LIST

3-yr. bed. Liners (from cuttings)	Per 100	Per 1000
Ilex rotundifolia, 6 to 10 ins., (2 TT)	\$27.00	\$200.00
Taxus hicksii, 8 to 12 (1 TT)	30.00	250.00
Taxus cusp., 6 to 8 ins. (1 TT)	30.00	250.00
Hetz sil. Juniper, 6 to 8 (2 TT)	27.00	225.00
Hetz sil. Jun., 10 to 12 (3 TT)	30.00	250.00
Amer. Arbor. (dark green), 8 to 10 ins. (1 TT)	27.00	225.00
B&B stock (from cuttings)	Each	per 25
Pyr. Arborv. 24 to 30 ins., B&B	\$2.25	\$2.00
Hetz sil. Juniper, 18 to 24, B&B	2.25	2.00
Andorra Jun., 12 to 16 ins., B&B	2.25	2.00
Gold. Juniper, 12 to 16 ins., B&B	2.25	2.00
Taxus browni, 14 to 18 ins., B&B	2.50	2.25
Pfitzer Jun., 18 to 24 ins., B&B	2.25	2.00

Liners, nursery row (ideal for potting).

From cuttings, well-sheared

Per 100	Per 1000
Forsythia (Spring Glory), 2 to 3 ft.	\$4.50 \$40.00
Globe Arborvitae, 8 to 10 ins.	6.00 50.00
Ilex rotundifolia, 8 to 10 ins.	5.00 45.00
Hetz sil. Juniper, 8 to 10 ins.	6.00 50.00

250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby, O. Terms: 2 per cent discount for cash with order, or by express C.O.D. shipment. Open Sundays. B&B stock to be picked up at nursery.

LITTLE ACRES NURSERY

R. 2, Chardon Rd. Willoughby, O.
 Phone CLifford 6-3632

ILEX CONVEXA BULLATA

Strong rooted cuttings, 6 ins., available April and May, unbranched, \$10.00 per 100; branched, \$12.00 per 100. Old English Boxwood, 4 ins., substantial body, \$15.00 per 100. 20 per cent with order.

THE GARDEN SPOT

222 Bala Ave. Oreland, Pa.
 (Near Philadelphia)

NURSERY STOCK

Taxus, Rhododendrons, Hollies, Azaleas, Magnolias, Euonymus, Boxwood, etc. Choice quality, well-godd stock, finished and lining-out sizes. Catalog now available.

GERARD K. KLYN, INC.
 Mentor, O.

In the heart of famous Lake County.

SHRUBS AND TREES

Tilia cordata, 1 1/2 to 1 3/4 ins. ... \$ 8.00 each
 Tilia cordata, 1 3/4 to 2 ins. ... 11.00 each
 Haleslas, single and multiple stems, 6 to 10 ft., heavy ... 5.00 each

Will load on your trucks.

BELLE VALLEY NURSERY

5614 Martin Rd., R. D. 6 Erie, Pa.

FINISHED STOCK

Azalea mollis, 10 to 12 ins., 75c; 12 to 15 ins., \$1.00.
 Azalea Evergreen, 8 to 10 ins., 80c; 10 to 12 ins., \$1.00; 12 to 15 ins., \$1.25, in kinds.
 Azalea viscosa, 10 to 15 ins., 80c; 15 to 18 ins., \$1.00.
 Azalea Paestolina, 8 to 10 ins., 60c; 10 to 12 ins., 80c.
 Azalea calendulacea, 10 to 12 ins., \$1.00; 12 to 15 ins., \$1.50.
 Buxus sempervirens, 8 to 10 ins., 15c; 10 to 12 ins., 25c.
 Pachistima canbyi, grade A, 35c; grade B, 25c.
 Hedera helix (pot-grown), 15c.
 Euonymus vegetus, 10 to 12 ins., 50c; 12 to 15 ins., 60c; 15 to 18 ins., 75c; 18 to 24 ins., \$1.00.
 Juniper, Pfitzer, 2 1/2 to 3 ft., \$2.50; 3 to 4 ft., \$3.00.
 Forsythia spectabilis, 15 to 24 ins., 30c.
 French Lilacs, 9 kinds, 12 to 15 ins., 60c; 15 to 18 ins., 75c; 18 to 24 ins., 90c; 24 to 30 ins., \$1.10.
 Ilex convexa, 8 to 10 ins., 40c; 10 to 12 ins., 50c; 12 to 15 ins., 60c; 15 to 18 ins., 75c.
 Magnolia soulangeana, 3 to 4 ft., \$3.50; 4 to 5 ft., \$4.00.
 Prunus glandulosa rosea, 2 to 3 ft., \$1.00.
 Wistaria, blue, 3 to 4 ins., 80c.
 Viburnum opulus sterile, 18 to 24 ins., 50c.

LITTLE MOUNTAIN VIEW NURSERY

2701 Route 84 Mentor, O.

QUALITY NURSERY-GROWN STOCK

Per 100 Per 1000

PIN OAK (Quercus palustris), 5 to 10 ins. seedlings	\$4.00	\$35.00
RED OAK (Quercus rubra), 5 to 10 ins. seedlings	4.00	35.00
5 to 10 ins. seedlings	4.00	35.00
12 to 18 ins. seedlings	6.00	50.00
18 to 24 ins. seedlings	8.00	75.00
NORWAY MAPLE (Acer platanoides), 8 to 16 ins. seedlings	4.00	35.00
SILVER MAPLE (Acer saccharum), 15 to 24 ins. seedlings	4.00	30.00
WHITE ASH (Fraxinus americana), 15 to 18 ins. seedlings	4.00	30.00
RED CEDAR (Juniperus virginiana), 3-yr. seedlings, 8 to 16 ins.	4.00	35.00
SWEET GUM (Liquidambar styraciflua), 15 to 18 ins. transplants, 6c each.		

Plants are tied in bundles of 25. 300 or more at 1000 rate. Prices are F.O.B. Hamlet, Ind. All plants are grown in our own nursery under irrigation.

STANLEY J. HENSLEY

Forester—Nurseryman Hamlet, Ind.

IDEAL SIZE PLANT MATERIAL FOR LANDSCAPERS OR GARDEN CENTERS

500 Ilex crenata, B&B, 24 to 36 ins.	\$3.50
500 Ilex crenata, B&B, 36 to 48 ins.	4.50
2000 Ilex crenata convexa (bullata), heavy, B&B, 18 to 24 ins.	3.50
18 to 24 ins.	3.00
1000 Jap. Red Maple, seedlings, B&B, 3 to 3 1/2 ft.	3.50
2000 Pieris japonica, well-budded, heavy, B&B, 18 to 24 ins.	3.50
1000 Pyracantha (1-gal. containers), 3 ft. 1.00	

Due to digging conditions in the spring we would appreciate orders early as possible for assurance of early delivery.

THE WHITMAN NURSERIES

236 Walt Whitman Rd. Huntingdon Station, N. Y.
 Phone Hamilton 3-3538

LANDSCAPE MATERIAL

Acer platanoides, 6 to 8 to 10 to 12 ft.
 Cham. plumosa, 12 to 15 to 18 to 24 ins.
 Cham. plumosa aurea, 12 to 15, 18 to 24 ins.
 Cornus florida, 3 to 4 to 6 to 8 ft.
 Cotoneaster divaricata, 2 to 3 ft.
 Crataegus cordata, 2 to 3 to 4 to 5 ft.
 Cryptomeria japonica lobbi compacta, 12 to 18 ins. to 3 to 4 ft.
 Juniperus stricta, 12 to 15 to 18 to 24 ins.
 Laburnum vossii, 5 to 6 ft.
 Koeleruteria paniculata, 2 to 3 to 3 to 4 ft.
 Pieris japonica, 12 to 15 to 18 to 24 ins.
 Sorbus aucuparia, 5 to 6 to 8 to 10 ft.
 Syringa vulgaris, 2 to 3 to 3 to 4 ft.
 Syringa vulgaris alba, 2 to 3 to 3 to 4 ft.
 Taxus, in varieties, 12 to 15 to 15 to 18 ins.
 Viburnum, in vars., 12 to 18 to 18 to 24 ins.

VERKADE'S NURSERIES

New London, Conn.

SHRUBS AND TREES

50 European Birch, 3 and 4-in. cal.
 1000 Chinese Elm, 3, 4, 5 and 6-in. cal.
 3000 Silver Maple, 1 1/2, 2 and 2 1/2-in. cal.
 400 Norway Maple, 2, 2 1/2 and 2 1/2-in. cal.
 350 Swedish Maple, 1 1/2, 2 and 2 1/2-in. cal.
 400 Sugar Maple, 1 1/2 and 1 1/2-in. cal.
 800 American Sycamore, 1 1/2 and 2-in. cal.
 500 European Birch, 4 to 5 ft. and 5 to 6 ft.
 1000 Mt. Ash, 4 to 5 ft. and 5 to 6 ft.
 1000 White Ash, 4 to 5, 5 to 6 and 6 to 8 ft.
 1000 Green Ash, 4 to 5, 5 to 6 and 6 to 8 ft.
 1000 Flowering Crab, 3 to 4, 4 to 5, 5 to 6 ft.
 Other trees in smaller quantities. Flowering shrubs in variety. See our ads under Evergreens, Liners and R&B.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.
 Phone GARfield 3-3739

SHRUBS and TREES—Continued

SHADE TREES	
Bare-root	Each
Water Maple, 1½ ins.	\$1.35
Water Maple, 1½ ins.	1.50
Water Maple, 2 ins.	2.00
Water Maple, 2½ ins.	3.00
Green Ash, 1½ ins.	1.75
Green Ash, 1½ ins.	2.50
Green Ash, 2 ins.	3.50
Sycamore, 1½ ins.	1.50
Sycamore, 1½ ins.	2.25
Sycamore, 2 ins.	3.25
Sweet Gum, ¾ to 1-in., 6 to 6 ft.	2.00
Thornless Locust, ¾ to 1-in., 6 to 8 ft.	1.00

Trees grown in Fleming County, Ky.
All trees nursery-grown. Write for quantity discounts of 100 or more.
Mail address

HILL & PAT FARMS
1550 Meadowthorpe Ave., Lexington, Ky.
Donald J. Hillenmeyer—Chas. C. Patrick III

EVERGREENS AND SHRUBS, B&B	
1000 Andorra Juniper, 18 to 24 ins.	\$1.50
2000 Andorra Juniper, 24 to 30 ins.	2.00
200 Mugho Pine, 12 to 15 ins.	2.00
200 Mugho Pine, 15 to 18 ins.	2.50
50 Mugho Pine, 18 to 24 ins.	3.00
500 Norway Spruce, 24 to 30 ins.	2.50
500 Norway Spruce, 30 to 36 ins.	3.50
500 White Pine, 2 to 3 ft.	2.50
500 Canada Hemlock, 5 to 6 ft.	5.00
500 Canada Hemlock, 6 to 8 ft.	8.00
5000 Ilex rotundifolia, 12 to 15 ins.	1.50
3000 Ilex rotundifolia, 15 to 18 ins.	2.00
1000 White Dogwood, most with buds, 6 ft.	3.50
500 Deutzia Pride of Rochester, 5 to 6 ft.	1.00
200 Mock Orange, 5 to 6 ft.	1.00

KANEFF'S NURSERIES
Glendale Rd., Marietta, O.

EVERGREENS, WHOLESALE
A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production. Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on page 28 of this issue, shows a partial list of seedlings and transplants.

MUSSER FORESTS
Box 16-CC, Indiana, Pa.

SPECIAL ON FLOWERING CRABS	
Select quality.	
Don't pass these up.	
7/16-in., 3 to 4 ft., 2-yr., br., 40c.	
9/16-in., 4 to 5 ft., 2-yr., br., 50c.	
11/16-in., 5 to 6 ft., 2-yr., br., 60c.	
7/16-in. 9/16-in. 11/16-in.	
Eleyi	370 1390 2250
Floribunda	165 220 500
Hopa	140 390 950
Red Vein	100 380 1115
Red Silver	320 440

CUMBERLAND VALLEY NURSERIES, INC.
J. R. Bragg, Pres.
P. O. Box 308, McMinnville, Tenn.
Phone 2616

BED-GROWN LINERS	
Gold Rain Tree, 6 to 12 ins.	Per 100 \$ 7.00
Bald Cypress, 12 to 18 ins.	7.00
18 to 24 ins.	10.00
2 to 3 ft.	15.00
Juniperus virginiana, 4 to 8 ins.	3.00
Hardy Live Oak (hardy and evergreen to 10 below zero), 6 to 12 ins.	10.00
12 to 18 ins.	15.00
18 to 24 ins.	20.00
True Pin Oak, 6 to 12 ins.	6.00
12 to 18 ins.	10.00

WARREN AND SON NURSERY
R. 11, Box 841, Oklahoma City 10, Okla.

ORNAMENTAL TREES
Crab Apple, 40 varieties; 1-yr. trees and limited number 4-yr. transplants. Descriptive booklet available.
Thunder Cloud Plum, purple-leaved; 1-yr. and 4-yr., 8 ft. up.
Winter King Hawthorn, fruits ornamental all winter; 1-yr. whips.
American Holly, hardy named varieties, in sizes to 6 ft.
Taxus and large plants of Magnolia soulangiana.

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd., Vincennes, Ind.
Phone TU 2-2441

Bright red Crape Myrtle, specimen, 7 to 8 ft., average about 3 to 5 calyxes, about 1-in. cal.; each main cane, \$4.00, B&B; potted, \$3.00 each. Abelia grandiflora, specimen, 4 to 6 ft., about 15 main canes, \$2.50, B&B; potted, \$2.00. Spiraea vanhouttei, specimen, 4 to 6 ft., about 30 canes per plant, \$2.50, B&B; potted, \$2.00. Peach pits, 1959 crop, \$2.95 per bu. One-half cash with order, balance on delivery.
Riverdale Nurseries, Riverdale, Ga.

SHADE TREES

HARD SUGAR MAPLE	
5 to 6 ft., ¾-in. cal.	Per 100 Per 1000 \$3.95 \$35.00
6 to 8 ft., ¾ to 1-in. cal.	5.75 47.50
FOR CONTAINERS	
7 to 9 ft., 1-in. cal. and over.	10.00 85.00
RUBRUM, SOFT MAPLE	
FROM SINGLES TO LARGE CLUMPS.	
MAY MAKE FREE DELIVERY	
IN TRUCKLOAD LOTS.	
JOHN L. KOOLEN NURSERY	
4806 Eastern, S.E.	Grand Rapids 8, Mich.
Phone LE 2-9017	

LOMBARDY POPLAR	
3-yr., heavy branched	Each .25 100
6 to 8 ft.	\$0.75 \$0.60
8 to 10 ft.	1.10 1.00
10 to 12 ft.	1.50 1.00
2-yr., 4 to 5 ft.	.50 .35
5 to 6 ft.	.60 .40
1-yr., 2 to 3 ft.	\$.75 per 100
3 to 4 ft.	10.00 per 100
4 to 5 ft.	12.00 per 100
5 to 6 ft.	15.00 per 100
Packing at cost.	

PAUL'S NURSERY
R.F.D. 3, Shelby, O.

BUDDLEIAS	
Strong, healthy plants from 2½-in. pots.	
Excellent stock to line out or can.	
	Per 100
Pink Charming	\$12.50
Dubonnet	12.50
Snow Bank	15.00
Ile de France	15.00
Imperial Blue	15.00
Royal Red	15.00
Asiatica, florists' variety, long white spikes	20.00
R. H. MURPHY'S SONS CO.	
Phone 3-4211	Urbana, O.

PIN OAK SEEDLINGS	
(Quercus palustris)	
RED OAK SEEDLINGS	
(Quercus rubra)	
	Per 100 Per 1000
9 to 12 ins.	\$ 6.00 \$ 55.00
12 to 18 ins.	8.00 75.00
18 to 24 ins.	12.00 100.00
2 to 3 ft.	17.00 140.00
3 to 4 ft.	25.00 220.00
4 to 5 ft.	35.00 300.00
Cash with order. No packing charge.	

HAGGERTY'S LANDSCAPE NURSERY
2600 S. 48th St., Lincoln 6, Neb.

DWARF MAHONIA
Jack Mayhan is authority on mountain-grown Mahonia. This is a new variety selection, hardy as Oak. Very compact, dwarf. Ready now. 100,000 plants. All plants U. S. D. A. inspected. Cash in on my many years' experience.
2-yr., T., \$20.00 per 100, \$150.00 per 1000.
5 to 6-yr. finished plants, \$3.00 each.
Cash with order. Full return 5-day privilege.
MAYHAN NURSERY, VERADALE, WASH.

Special sale, April 1 to 15. American and Pyramidal Arborvitae, Pfitzer and virginiana Juniper, Scotch and Austrian Pine, Norway, White and Colorado Spruce, Balsam Fir, Sycamore, Acer rubrum, Chinese Elm, Moraine Locust, in 5-gal. cans; Malus eleyi. Dig your own or make deposit, tag and leave in ground up to 90 days. Priced to sell. Located between New Hudson and Milford, Goshline Farm Nursery, 900 East Buno Rd., Milford, Mich.

QUALITY GROWN STOCK	
SILVER MAPLE, 1½ to 2-in. cal.	Each \$3.00
SYCAMORE, 1½ to 2-in. cal.	3.00
CHINESE ELM, 1½ to 2-in. cal.	3.00
GREEN ASH, 1½ to 1½-in. cal.	3.00
THORNLESS LOCUST, 1½ to 1½-in. cal.	3.00
AMERICAN ELM, 1½ to 1½-in. cal.	3.00
AMERICAN PLUM, 1½ to 1½-in. cal.	3.00
KINAST NURSERY, ANTIOCH, ILL.	
On Route 173, 2 mi. west of Route 45.	
Phone Antioch 2222.	

10,000 RED BARBERIES
15 to 18 ins., 3-yr., field-row.
200 TAXUS
spreaders, 18 to 24 ins.
Also other ornamental and flowering shrubs.
Trade list on request.
JOHN G. STROPKEY & SONS NURSERIES
485 Bowhall Rd., Painesville, O.

GRAFTS AND LINERS
Juniper grafts: Canari, keteler, Dundee, glauca, burki, blue columnaris, cupressifolia and blue globosa, 45c each, regardless of quantity.
True Pin Oak, 2-yr., T. 12 to 18 ins., 7c.
True Pin Oak, 2-yr., T. 18 to 24 ins., 10c.
Taxus cuspidata, 2-yr., 2½-in. pots, 20c.

ARROW-WOOD NURSERIES
Route 1, Warsaw, Ky.

Fothergilla gardenii, 2-yr. bedded cuttings, \$60.00 per 100. For description, see American Nurseryman, January 15, 1959.
Mahlebade Bros., 5323-5351 Wilson Mills Rd., Cleveland 24, O.

NICELY BRANCHED SHRUBS.

Prunus glandulosa, 18 to 24 ins.	\$0.50
Prunus glandulosa, 2 to 3 ft.	.75
Lonicera tatarica alba, 18 to 24 ins.	.50
Lonicera tatarica alba, 2 to 3 ft.	.75
Lonicera zabeli, 18 to 24 ins.	.50
Lonicera zabeli, 2 to 3 ft.	.75
Forsythia Lynwood Gold, 2½ to 3 ft.	.40

IMPERIAL NURSERIES
P. O. Box 1000, East Hartford, Conn.

HARD MAPLES

2 to 3 ft., \$75.00 per 1000.	
3 to 4 ft., \$125.00 per 1000.	

GOLDEN MOCK ORANGE

Rooted cuttings, \$75.00 per 1000.
300 at 1000 rate. No C.O.D.
NEWLAND'S NURSERY
Lake City, Minn.

SHRUBS AND TREES

European Birch, 1½ to 2 ins., B&B	\$ 7.50
American Birch, 2 to 2½ ins., B&B	11.50
Mugho Pine, 15 to 18 ins.	3.00
Austrian, Norway or Scotch Pine, 2 to 2½ ft., B&B	2.50
Colorado Spruce, 1½ to 2 ft.	3.00

WARNER'S NURSERY
939 Nettie St., Belvidere, Ill.

CRAB APPLES, FLOWERING
Large quantity, large sizes, including 8 to 10 ft., 7 varieties, specimen trees, at attractive prices.
Send for spring list Azaleas, broad-leaved Evergreens, trees, etc.

THE TANKARD NURSERIES
Exmore, Virginia

TO CLEAR FIELD
Junipers, 150 Andorra, 12 to 18 ins.; 600 Hetz and Pfitzer, 12 to 24 ins. 50 Green Thread Cypress, 10 to 18 ins. 100 Mt. Ash, 4 to 6 ft. Will make attractive price. You dig them. Phone GL 2-4247.
Y. G. GREENHOUSE & NURSERY
Rt. 75, 5½ mi. N. E., Zanesville, O.

RUSSIAN OLIVE SEEDLINGS	
6 to 12 ins.	\$15.00 per 1000
12 to 18 ins.	15.00 per 1000
18 to 24 ins.	35.00 per 1000
2 to 3 ft.	50.00 per 1000

ROGERS & KOPENHEFFER NURSERY
2029 Judson Dr., Manhattan, Kan.

WINTER JASMINE
(Jasminum nudiflorum)
2-yr., \$4.00 per 10, \$35.00 per 100.
WAYNESBORO NURSERIES
Waynesboro, Va.

Spruce, Azaleas, Sycamores, Magnolia, flowering Crabs, Peaches, Plums, Judas Tree, Pussy Willows, Lilacs, Arborvitae, Forsythias, others. Bill Wentzell, Elmer, N. J.

Schipka Laurel, heavy rooted cuttings, 10c. Please see complete list on page 99.
Templeton, Phytovetor, Winchester, Tenn.

HAMAMELIS MOLLIS
Bushy plants, 2 to 3 ft., br., \$125.00 per 100.
KLUIS' NURSERIES, Pompton Plains, N. J.

Ginkgo biloba, 6 to 8 ins., seedlings, 10c. Please see complete list on page 99.
Templeton, Phytovetor, Winchester, Tenn.

Daphne odora, rooted cuttings. Also other shrubs. Stal's Flower Nook, Aurora, Ore.

STRAWBERRIES

STRAWBERRY PLANTS
Choice, well-rooted, certified and virus free. Cleaned, packed in bundles of 25.
Blakemore, Dunlap, Robinson, Tenn. Beauty, Aroma, 1000 plants, \$7.50.
Pocahontas, Dixieland, Armore, Surecrop, 1000, \$9.00.

Streamliner Everbearing, 1000, \$12.50.
Osark Beauty Everbearing, 1000, \$70.00.
Plants well-packed. Prompt shipment.
Live arrival guaranteed. Priced F.O.B.

HAMES STRAWBERRY NURSERY
Goodman, Mo.

NEW MINNESOTA STRAWBERRIES
Earlmore, \$20.00 per 1000
Trumpeter, \$40.00 per 1000
Prices are F.O.B. Lake City, Minn.
300 at 1000 rate.

NEWLAND'S NURSERY
Lake City, Minn.

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TAXUS LINERS	
100	1000
Taxus media wardi.	
2-yr. bands, husky	\$32.50 \$300.00
Taxus media (Amherst), new, compact, bright green spreader. Proved winter hardy, 1-yr. bands	30.00 275.00

MITSKA NURSERY
Amherst, O.

20,000 TAXUS CAPITATA
2-yr. seedlings from Japanese seed. 3½ to 7 ins., nice, \$30.00 per 1000. Liberal count. Free packing for cash with order.
RITTER'S NURSERY, BENTON, PA.

UBS.
.....\$0.50
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Liberal

order.

PA.

TAXUS CAPITATA
(Upright Japanese Yew.)
Per 100 Per 1000
*15,000 2-yr., selected seedlings.....\$0.15 \$0.12 1/2
4 to 6 ins......45 .40
15,000 4-yr., T. 10 to 15 ins......45 .40
*Seed sown lightly. Plants grown with
plenty of room in beds.
C. HOOGENDOORN
Turner Rd. Newport, R. I.

TAXUS CUSPIDATA CAPITATA
2-yr., selected seedlings.....Each 100 1000
3 1/2 to 7 ins.....\$0.10 \$0.09
IMPERIAL NURSERIES
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VEGETABLE PLANTS
VEGETABLE PLANTS
FOR GARDEN AND NURSERY SHOPS.
WRITE FOR COMPLETE WHOLESAL
LIST OF POPULAR VARIETIES.
Cabbage, 12 popular varieties.....2000, \$5.40
RED ROUND DUTCH CABBAGE 1000, 3.65
Onions, 4 popular varieties.....crate, 5.40
HYBRID Onions, yel. and white, crate, 6.95
State inspected. Shipped by express now.
All guaranteed, fresh pulled, true to name.
Tomato and Pepper plants ready in April
Sweet Potato plants ready in April.
FARRIER PLANT CO., B. B. BROWN
Box A. A. N. Morris Co., Omaha, Texas

VIBURNUMS
HEAVY SELECT VIBURNUMS
Priced per EACH in LOTS of 10 or more.
1000 dentatum, 2 to 3 ft.....\$0.50
500 dentatum, 2 to 4 ft......60
500 dentatum, 4 to 5 ft......75
60 dentatum, 5 to 6 ft......90
200 dilatatum, 2 to 3 ft......60
300 dilatatum, 3 to 4 ft......75
200 lantana, 3 to 4 ft......65
50 lantana, 4 to 5 ft......75
250 opulus, 18 to 24 ins......50
250 opulus, 2 to 3 ft......60
350 opulus, 3 to 4 ft......70
110 tomentosum, 3 to 4 ft......75
150 wrightii, 2 to 3 ft......75
100 wrightii, 3 to 4 ft......90
Ask for price if needed R&B.
MOSES NURSERIES, LIMA, N. Y.

VIBURNUM CARLESI
(Fragrant Mayflower Viburnum)
Per 100 Per 1000
5000 2-yr. seedlings.....\$0.15 \$0.12 1/2
4 to 6 ins......20 .17 1/2
6 to 8 ins......30 .25
8 to 12 ins......75 .60
*1000 3-yr. T. 12 to 18 ins......75 .60
*Heavy, well-branched, suitable for mail
order trade.
C. HOOGENDOORN
Turner Rd. Newport, R. I.
VIBURNUM CARLESI COMPACTA (NEW)
This is a compact form of Viburnum car-
lesii with dark green leaves and buds up very
readily. 100 1000
2500 2-yr. grafts.....\$1.25 \$1.00
C. HOOGENDOORN
Turner Rd. Newport, R. I.

VIBURNUM ODORATISSIMUM
12 to 18 ins., 1-yr., bed-grown,
\$150.00 per 1000.
COTTAGE HILL NURSERY, LTD.
4000 Japonica Lane Mobile, Ala.
Viburnum liners, juddi, chenaulti, macro-
cephalum sterile, rhytidophylloides and to-
mentosum plicatum grandiflorum.
Please see complete list on page 99.
Templeton, Phytotektor, Winchester, Tenn.

VINCAS
VINCA MINOR (PERIWINKLE)
10 to 20 leads.....\$45.00 per 1000
20 to 30 leads.....60.00 per 1000
J. A. WEDDINGTON & SON
4414 Holston Drive Knoxville, Tenn.
Variegated Vincas, good salable plants,
\$6.00 per 100, \$50.00 per 1000.
Mountain Nurseries, Mountain, Ga.

WANTED
WANTED
SURPLUS NURSERY STOCK
Interested in substantial quantities of
quality stock for wholesaling to garden cen-
ters, chain stores, landscapers and builders
in New England. Write us today!
ARTHUR GAKLIS
Weston Plantland
181 South Ave. (R. 30) Weston 93, Mass.
WANTED, PINEHURST GRASS
Please quote price
and any information on the product.
PATRICK HARRY NURSERY
3853 N. Richards St. Milwaukee 12, Wis.

WANTED
5000 Yellow Twig Dogwood,
liners.
BORK NURSERY, ONARGA, ILL.

WANTED, IN QUANTITY
Ligustrum lucidum recurvifolium, 3 to 5 ft.
Ligustrum lucidum coriaceum, 2 to 3 ft.
Osmanthus aquifolium, 4 to 5 ft.
Ilex helleri, 12 ins. to 2 1/2 ft.
Ilex burfordi, 2 to 5 ft.
Juniperus horizontalis plumosa, 2 to 3 ft.
Gardenia fortuneana, 3 to 4 ft.
Viburnum rhytidophyllum, 3 1/2 to 5 ft.
Rosa rugosa, pink, 2 to 3 1/2 ft.
Rosa rugosa, white, 2 to 3 1/2 ft.
Berberis verruculosa, 2 to 3 1/2 ft.
Bignonia Mme. Galen, 2 to 3-yr.-old
Bignonia grandiflora, 2 to 3-yr.-old
Pyracantha, government, red, 3 to 4 ft.
Cercidiphyllum japonicum, 8 to 10 ft.
Styrax japonica, 5 to 6 ft.
Magnolia glauca, 5 to 6 ft.
Contact:
CHAS. E. FRANKENBACH & SONS
Box 837 Southampton, N. Y.

WANTED
CONTRACT PRICE
FOR 20,000 KOSTER BLUE GRAFTS.
Can furnish understock for same.
WRITE
BURMAK NURSERY, PEEKSKILL, N. Y.

MISCELLANEOUS
AVAILABLE NOW!
1400 Euonymus coloratus, in 1-gal.
containers.....75c each
500 Peony Felix Crousse, 4-yr.,
3 to 5-eye divisions.....25c each
300 Peony Felix Crousse, 4-yr.,
5 to 7-eye divisions.....50c each
Write us for prices on either lot.
LITTLEFOUR NURSERIES
Vincennes, Ind.

SUPPLIES
BOOKS
MEDICINAL, ECONOMIC AND USEFUL
PLANTS OF INDIA
An informative book fully describing thera-
peutic uses of more than 650 Indian medi-
cinal plants and useful notes on over 550
economic and useful plants of India. Send
\$1.00 and get a copy, postpaid.
BALLY SEED STORE
P. O. Bally, Dt. Howrah, West Bengal, India.

BURLAP
NEW 8 OZ. BURLAP TREE WRAP
IN ROLLS. PRICED EACH.
Width Per roll 10-20 30-50
length rolls rolls
2 ins. x 54 ft.....\$0.75 \$0.60 \$0.55
3 ins. x 54 ft......82 .65 .57
4 ins. x 54 ft......98 .79 .69
5 ins. x 54 ft.....1.28 1.03 .90
6 ins. x 54 ft.....1.59 1.27 1.12
All the above prices are F.O.B. Dayton, O.
All widths packed 10 rolls per bale and
wrapped in kraft paper.
2 per cent discount cash with order. Special
discount on orders for more than 50
rolls.
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.
Phone Baldwin 3-8277

SPRING SPECIAL
NEW (8 OZ.) BURLAP SQUARES.
18 x 18 ins.....\$30.00 per 1000
20 x 20 ins.....32.50 per 1000
20 x 24 ins.....37.50 per 1000
20 x 30 ins.....42.50 per 1000
20 x 36 ins.....55.00 per 1000
Prepaid in quantities of 5000 or more.
TERMS: 2 per cent discount cash with
order. Immediate shipment available.
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.
Phone Baldwin 3-8277
HOLLAND BURLAP squares, for all needs.
PLAIN, ROT-NOT-GREEN plastic preserved.
HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES
NATURAL BAMBOO STAKES
PER 100 1/2-in. 3/4-in. 1-in. 1 1/4-in.
4 ft.....\$2.88 \$3.44 \$4.24 \$5.60
5 ft.....3.60 4.30 5.30 7.00
6 ft.....5.16 6.36 8.40
7 ft.....6.02 7.42 9.80
8 ft.....6.88 8.48 11.20
10 ft.....10.50 14.00
12 ft.....12.72 16.30
Approximate thickness at bottom end.
F.O.B. Livonia, La. 2000 up, less 5 per
cent; 5000 up, less 10 per cent.
A. C. PATTERSON, FRISCO, LA.
FORMERLY OF CENTERTOWN, KY.
OUTDOOR BAMBOO STAKES
All sizes for immediate delivery.
Ask for our Nursery Supply List.
HALF MOON CO., Box 27A, Plainfield, N. J.

DYED GREEN PLANT STAKES
Hand selected and dyed a rich forest
green. Uniform lead pencil thickness.
Size Per bale Price Av. weight
1 1/2 ft.2000 per bale \$ 6.00 25 lbs.
2 ft.2000 per bale 8.00 40 lbs.
2 1/2 ft.2000 per bale 10.00 60 lbs.
3 ft.2000 per bale 13.00 100 lbs.
4 ft.2000 per bale 18.00 140 lbs.
5 ft.2000 per bale 24.00 236 lbs.
6 ft.2000 per bale 33.00 256 lbs.
SPLIT BAMBOO PLANT STAKES
for lighter staking. Av. weight
Size Per bale Price per bale
12-in.2000 per bale \$ 5.00 18 lbs.
15-in.2000 per bale 7.00 24 lbs.
18-in.2000 per bale 9.00 33 lbs.
24-in.2000 per bale 11.00 53 lbs.

IMPORTED
NURSERY BAMBOO STAKES
Extra-heavy for staking trees, evergreens.
Dahlias and other large plants.
Butt cut with a minimum of taper.
Contents Ave. wt.
Size-diam. per bale Price per bale
4 ft., 1/2 to 3/4-in.500 \$22.50 90 lbs.
5 ft., 3/4 to 1-in.250 17.50 70 lbs.
6 ft., 1 to 1 1/4-in.200 15.00 55 lbs.
7 ft., 1 1/4 to 1 3/4-in.150 13.00 45 lbs.
8 ft., 1 3/4 to 2-in.100 10.00 30 lbs.
QUANTITY DISCOUNTS
5 bales up, less 5 per cent
10 bales up, less 10 per cent
25 bales up, less 15 per cent
Our generous quantity discounts apply to
total orders for all types of stakes.
F.O.B. NEW JERSEY AND CHICAGO.
SOLD IN BALE LOTS ONLY.
McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEX HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

COLOR TAGS
COLOR PICTURE TAGS
Quick shipments. Reasonably priced.
Shrubs, shade, fruits, vines, flowering trees,
etc. Write for price list.
GLOBE NURSERIES
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FERTILIZERS
PETERS SPECIAL
A complete line of soluble and long-life
fertilizer formulas specially designed for the
commercial grower and manufactured by
the Robert B. Peters Co., Inc., the trade's
leading commercial soil test laboratory.
Drop a card for complete price list and your
free brochure, "The Peters System of Soil
Fertility Control."
ROBERT B. PETERS CO., INC.
323 N. 15th St. Allentown, Pa.
TRU-GREEN NURSERYMEN'S MIX
Consists of iron, zinc and manganese.
Prices postage paid, 48 1 oz., \$9.00; 8 oz.,
\$1.00; 20 oz., \$3.00. Also at same prices,
organic iron chelates to keep plants green.
None better.

PENN'S MANOR, INC.
Cornwells Heights, Pa.
Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

FLATS
CYPRESS FLATS
TOP GRADE FLATS THAT LAST.
No. Size I.S.M. Per 100 Wt.
1. 14x20x2 3/4 ins.\$25.00 590
2. 14x20x3 3/4 ins.29.00 680
3. 12x16x2 3/4 ins.20.00 440
5. 14x16x2 3/4 ins.22.00 510
7. 15x22x2 3/4 ins.29.00 670
8. 15x22x3 3/4 ins.33.00 780
9. 11 1/2x22x2 3/4 ins.23.00 540
Any size to order. Bottoms and sides
1/2-in. thick; ends 3/4-in. All planed one side.
5 per cent discount on orders for 500 or
more. Terms: Cash. Up to 3 lines printing.
\$1.00 setup charge plus 1c per end piece.
Shipped K.D., units of 25, F.O.B. William-
ston, N. C., truck.
H. C. HILL & SONS
P. O. Box 747 Williamston, N. C.
Phone Swift 2-4127
CYPRESS FLATS, K.D.
Finest stock obtainable. Guaranteed all
clear heart. Size 20x15x3 ins. inside measure,
\$38.00 per 100.
1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
50 pcs. to bundle, 6 ft., \$5.50 per bdl.
Ship same day.
YOHO & HOOKER, YOUNGSTOWN 2, O.

FLATS—Continued

WHITE CEDAR FLATS		Price per Wt per	
Order by No.	Size	100	100
No. 1.	14x20x2 1/2-in.	\$27.75	320
No. 2.	14x20x3-in.	32.00	400
No. 3.	12x16x2 1/2-in.	21.00	260
No. 4.	12x16x3-in.	24.75	275
No. 5.	14x16x2 1/2-in.	23.75	275
No. 6.	14x16x3-in.	28.00	290
No. 7.	15x22x2 1/2-in.	31.50	380
No. 8.	15x22x3-in.	35.75	425
No. 9.	11 1/4x22 1/2x2 1/2-in.	25.75	320
No. 10.	11 1/4x22 1/2x3-in.	29.50	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	5x11x5-in.	16.75	160
No. 13.	5x16x5-in.	19.00	215
Plant boxes,	5 1/2x11 1/2x2 1/2-in.	8.00	60
Plant boxes,	5x8 1/2x2 1/2-in.	5.50	45

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request. Bottoms and sides are 3/4-in. thick and ends are 1/2-in. thick. Plant boxes are made of thinner lumber. Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 1/4c per end piece. Shipped K.D. in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified.

QUANTITY DISCOUNTS.

Order totaling \$100.00 to \$200.00, 5 per cent; \$200.00 to \$400.00, 6 per cent; \$400.00 to \$600.00, 7 per cent; \$600.00 to \$800.00, 8 per cent; \$800.00 to \$1000.00, 9 per cent; \$1000.00 and over, 10 per cent.

TERMS: 2 per cent, check with order; 1 per cent 30 days, net 60.

H. C. HILL & SONS, INC.
Phone North 6-3348 Cook, Minn.

JIFFY-POTS

JIFFY-POTS
All sizes available for prompt shipment at standard prices.
McHUTHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

More customers for you!
Over 9,500 subscribers, all active buyers, see your ad in the American Nurseryman.

LABELS

DAHLIA OR TREE LABELS		Priced per carton	
		Plain	Painted
2 1/4 x 1/2 ins., notched, not wired.		\$3.00	\$3.60
3 1/4 x 1/2 ins., wired (copper).		3.95	4.90
POT LABELS		Priced per carton	
		Plain	Painted
4 x 1/2 ins. (cartons 1000 each).		3.95	4.60
5 x 1/2 ins. (cartons 1000 each).		4.30	5.10
6 x 1/2 ins. (cartons 1000 each).		4.70	5.80
GARDEN STAKES		Priced per carton	
		Plain	Painted
8 x 1/2 ins. (cartons 500 each).		\$3.60	\$4.30
10 x 1/2 ins. (cartons 500 each).		4.20	5.10
8 x 3/4 ins. (cartons 250 each).		3.00	3.60
10 x 3/4 ins. (cartons 250 each).		3.30	3.90
12 x 1 1/4 ins. (cartons 100 each).		2.00	2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

Catalog on request.
"We ship same day."
YOHO & HOOKER, YOUNGSTOWN 2, O.
PRINTED PLASTIC AND WHITE CEDAR labels for pots, shrubs, trees and Roses. Write for complete price list and samples.

HEINZE GARDEN SUPPLY
100 Oak Ave. S.E. Mountain View, Calif.
FINEST BLANK OR PRINTED wood labels.
BENJ. CHASE CO., VI. Sta., DERRY, N. H.

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NAILS	
NURSERY PINNING	
COMMON	
COATED	
EGG CASE	
BARBED BOX	
BLUED PLASTER BOARD (Gypsum)	
FLOORING	
COATED BOX	
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BLUED METAL LATH	
BLUED LATH	
DUPLIX HEAD	
CASING	
FINISH	
SPIKES	
CUT, COMMON, CASING, CLINCH	
FIRE DOOR, HINGE, CORNICE, FOUNDRY	
ROOFING, bright galvanized	
SHINGLE, galvanized	
FENCE STAPLES, galvanized, bright	
HOOP STAPLES, galvanized	
NETTING STAPLES, galvanized	
GALVANIZED COMMON	
MISCELLANEOUS NAILS, BRADS	
THE ILLINOIS NAIL CO.	
826 N. Peoria	Chicago 22, Ill.
1892	68 years
Phone MOnroe 6-0178—0178—0177	
1960	

PEAT MOSS

"BRODLEAF." Best Holland PEAT MOSS.
Gardner No. 110 and No. 85, Growers No. 120
Growers Jumbo No. 170. Two Bales Equal 3.
HALF MOON CO., Box 27A, Plainfield, N. J.

PLANT FOOD

OHIO DISTRIBUTOR	
CHLOROMONE	
Liquid plant hormone with chlorophyll.	
4-oz. jar	\$ 3.00
Case of 12	23.40
Case of 24	43.20
Gallon tin	45.00
CRUMRINE NURSERY	
R. D. 2	Phone TA 3-9508 Alliance, O.
CHLOROMONE	
Liquid plant hormone.	
4-oz. jar	\$ 3.00
Case of 12	23.40
Case of 24	43.20
Gallon tin	45.00
HESS' NURSERIES	
P. O. Box 128	Wayne, N. J.

PLANT TIES

"QWIK-TIES" NEW, IMPROVED	
PLASTIC PLANT TIES	
Guaranteed fade-proof.	
Small, strong, almost invisible. Economical and easy to use. Packed in bundles of 250 ties for convenient use.	
Size	Per carton Av. weight of 10,000 per carton
4-in.	\$10.00 5 lbs.
8-in.	18.00 10 lbs.
12-in.	27.00 14 lbs.
McHUTHISON & CO.	
695-N Grand Ave.	Ridgefield, N. J.

PLASTIC FILM

GER-PAK POLYETHYLENE FILM	
SUN-RESISTANT BLACK FOR MULCHING	
.0015 MIL.	
3 ft. x 500 ft.	\$ 7.45 roll
3 ft. x 1000 ft.	14.90 roll
4 ft. x 1000 ft.	19.90 roll
NATURAL TRANSPARENT ONLY	
.002 MIL. ALL ROLLS 200 FT. LONG	
4 ft. 2 ins. x 200 ft.	\$ 5.55 roll
8 ft. 4 ins. x 200 ft.	11.10 roll
12 ft. x 200 ft.	15.90 roll
NATURAL TRANSPARENT ONLY	
.004 MIL. ALL ROLLS 100 FT. LONG	
3 ft. x 100 ft.	\$ 4.00 roll
4 ft. x 100 ft.	5.30 roll
6 ft. x 100 ft.	7.93 roll
8 ft. x 100 ft.	10.65 roll
14 ft. x 100 ft.	18.60 roll
MINIMUM ORDER .004 mil. 4 rolls up to 8 ft.	
Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.	
PHONE BALDWIN 3-8277	
DAYTON NURSERY & GARDEN SALES	
P. O. Box 763	Dayton 1, O.

POLYETHYLENE FILM	
Natural transparent, made from Du Pont Alathon, the amazing film for greenhouses.	
.004 mil., all rolls 100 ft. long.	
3 ft. wide by 100 ft. long.	\$ 6.00 per roll
4 ft. wide by 100 ft. long.	8.00 per roll
6 ft. wide by 100 ft. long.	12.00 per roll
8 ft. wide by 100 ft. long.	16.00 per roll
Other sizes available up to 20 ft. wide.	
Send \$1.00 for liberal sample.	
3 ft. x 10 ft. postpaid.	
Special deal for greenhouse construction.	
5 rolls to 9 rolls, 25 per cent discount.	
10 rolls or more, 33 1/2 per cent discount.	
"We ship same day."	
YOHO & HOOKER	
520 Williamson Ave.	Youngstown 1, O.

POLYETHYLENE FILM	
TRANSPARENT AND BLACK	
.004 mil., rolls 100 ft. long.	
3 ft. x 100 ft.	\$ 4.00 roll
4 ft. x 100 ft.	5.25 roll
6 ft. x 100 ft.	7.95 roll
10 ft. x 100 ft.	14.50 roll
14 ft. x 100 ft.	18.50 roll
Write for low prices on quantity orders.	
Other sizes and mil. thicknesses available from stock up to 40 ft.	
BROADWAY RUBBER CORP.	
529 E. Broadway	Louisville, Ky.

DUPONT'S WEATHERABLE MYLAR	
5 mil., NEW TYPE W-1	
(One side exposure.)	
42 ins. wide x 100 ft. long roll	\$52.50
48 ins. wide x 100 ft. long roll	60.00
51 ins. wide x 100 ft. long roll	63.75
1000-ft. rolls, same widths, 13 1/2c per sq. ft.	
FREIGHT PREPAID, CASH WITH ORDER.	
5 mil., TYPE W-2 (two side exposure) also available. Write for prices and information.	
ROUGH BROS., INC.	
4229 Spring Grove Ave.	Cincinnati 23, O.
VIKING CLOTH—Plastic Sealed Burlap.	
Let in light. Keep out Water, Wind.	
In 50-yard rolls 5 ft. wide, \$38.00.	
Polyethylene, Clear, Black, Rolls, Shts.	
HALF MOON CO., Box 27A, Plainfield, N. J.	

POLYETHYLENE FILM

1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide,	\$20.40; 4 ft. wide, \$27.00.
2 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$8.00; 8 ft. 4 ins. wide, \$15.00; 12 ft. wide, \$21.60.	
4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$6.00; 4 ft. wide, \$8.00; 6 ft. wide, \$11.20; 8 ft. wide, \$14.40; 10 ft. wide, \$18.00; 12 ft. wide, \$21.60; 14 ft. wide, \$25.20; 16 ft. wide, \$28.80; 20 ft. wide, \$36.00; 24 ft. wide, \$43.20; 28 ft. wide, \$50.40; 32 ft. wide, \$57.60.	
10 per cent discount on orders over \$24.00.	
20 per cent discount on orders over \$60.00.	
35 per cent discount on orders over \$50.00.	
sq. ft.	
We pay freight if check is with order.	
6 mil. available in widths up to 32 ft.	
ROUGH BROS.	
4229 Spring Grove Ave.	Cincinnati 23, O.

PLASTIC POTS

WILSON HIGH IMPACT
POLYSTYRENE PLASTIC POTS
Attractive mottled colors in utility grade, sold in original cartons only. All priced F.O.B. Dayton, O.

	Per 1000	Wt.
2 -in., round, 1000 case	\$ 12.50	13 lbs.
2 1/2 -in., round, 1000 case	15.00	24 lbs.
3 -in., round, 1000 case	19.00	33 lbs.
4 -in., round, 500 case	35.00	32 lbs.
4 -in., round tub, 500 case	35.00	33 lbs.
5 -in., round, 300 case	66.00	38 lbs.
6 -in., round, 120 case	120.00	34 lbs.
6 -in., round tub, 120 case	105.00	25 lbs.
7 -in., round, 72 case	175.00	30 lbs.
2 1/2 -in., square, 1000 case	12.50	15 lbs.
2 1/2 -in., square, 1000 case	15.00	22 lbs.
3 -in., square, 1000 case	15.00	33 lbs.
4 -in., square, 500 case	35.00	33 lbs.
Also available in solid pastel colors. Write for quote on colors. Send fifty cents (\$50) for complete set of samples postpaid.		
DAYTON NURSERY & GARDEN SALES		
P. O. Box 763	Dayton 1, O.	
Phone Baldwin 3-8277		

ATTRACTIVE PLASTIC FLOWER POTS	
Guaranteed no breakage.	
Size	Per 1000 Weight
2 ins., round	\$ 9.00 12 lbs.
2 1/2 ins., square	10.00 18 lbs.
2 1/2 ins., round	11.50 22 lbs.
3 ins., square	17.00 30 lbs.
3 ins., round	17.00 30 lbs.
3 1/2 ins., square	32.00 33 lbs.
4 ins., round	32.00 35 lbs.
Bulletin other sizes. "We ship same day" and plants grow better, too.	
YOHO & HOOKER	
Box AN, 1165	Youngstown 1, O.

POTS, LOW COST, LIGHTWEIGHT
Ritter-Wilson plastic plant pots cost less to buy, handle and ship. High impact plastic assures rugged durability, unbreakable in normal use! Available in round and square pots, tubs, bantam flats and saucers. Wide range of popular sizes. Switch to Wilson pots NOW. For free samples, write to:
RITTER-WILSON, INC.
Dept. XX, P. O. Box 8216 Orlando, Fla.

PRINTING

Letterheads 8 1/2 x 11 ins. Envelopes, 6 1/2 size. 250 of each, \$6.50; 500 of each, \$11.50. Postpaid to zone 3; beyond 3, add 5 per cent.
H. Grebe, 306 Union St., Rye, N.Y.

REED MATS

GUARD 'N SHADE
DUTCH-MADE REED MATS
Carefully woven with a generous amount of reed. Durable and easy to handle. Ideal for coldframe protection in spring and fall.
AVAILABLE IN 3 SIZES, F.O.B. ATLANTIC AND GREAT LAKES PORTS. 6x1-FT. SIZE AVAILABLE FOR IMMEDIATE SHIPMENT. WRITE FOR PICES.
McHUTHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

SOIL CONDITIONERS

FREE! AUTHENTIC RESEARCH DATA on greenhouse and vegetable growing operations, rejuvenation of sterilized soils, balanced seed beds for optimum growth and disease inhibited plants. Used by commercial growers in 23 countries. World proved and tested.
CLAIR W. STILLE
137 Bassett Ave. Lexington, Ky.

SPHAGNUM MOSS

CONTACT WARRENS MOSS COMPANY for all your sphagnum moss needs, both in bales and also in milled sphagnum for seed germination.
WARRENS MOSS CO., WARRENS, WIS.
Fresh, clean sphagnum moss, write, or phone City Point 133 for our low prices on wirebound bales in truckloads or carlots.
Tony Jaromir, City Point, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed\$3.00 per bundle
1x1-in.—4 ft., pointed 3.50 per bundle
1x1-in.—5 ft., pointed 4.50 per bundle
1x1-in.—6 ft., pointed 5.50 per bundle
1x1-in.—7 ft., pointed 7.00 per bundle

These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

WE SHIP SAME DAY!

YOHO & HOOKER
Youngstown 2, O.

STAKES, NORTHERN WOODS

All sizes and types.

Please write for samples and quotations.
WOODLAND CONTAINER CO.
Aitkin, Minn.

STAKES, GALVANIZED HARD STEEL

GALVANIZED tree guying WIRE.

HOSE for guywire PADDING.

Prices and samples sent on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

Plant Stakes, see large ad under Cane Stakes. McHutchison & Co., Ridgefield, N. J.

TRADE BOOKS

TRADE BOOKS.

Descriptive book circulars available on request.

MANUAL OF CULTIVATED TREES AND SHRUBS,
by Alfred Rehder, \$13.00.

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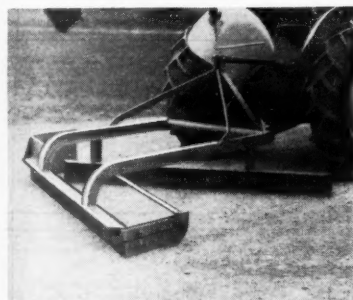
GREENHOUSE HEATING AND CONSTRUCTION,
by H. E. Gray, \$1.50.

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by John Y. Beaty, \$2.75.

THE GRAFTER'S HANDBOOK,
by R. J. Garner, \$5.75.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.



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Fits any tractor with a 3-point lift. Reduces labor costs. Saves you money. Thousands now in use. Buy it and try it. If you are not completely satisfied, return it for full refund. ACT NOW! For further details and prices write

The GLEDHILL



ROAD MACHINERY CO.
GALION, O.

OREGON CONVENTION

[Continued from page 113]

Crab apple trees do not result in aphid drip. The homeowner contemplating selection of a good lawn specimen should be asked what he desires of the tree. Leaf color often enters into the final decision.

Luncheon Speakers

Two luncheon speakers were on the O. A. N. program. The first day of the convention, Robert Lynott, Mr. Weatherman of KOIN-TV, Portland, was the speaker. His talk was titled "Is There an Ice Age Coming?" However, he preceded this with a few remarks about the manner in which a weatherman goes about getting weather data and then transferring it to readers or listeners. Circumstances which may cause another ice age were then described.

The second day, the luncheon speaker was Dr. James Tattersol, department of economics, University of Oregon, Eugene. He described the economic performance of Oregon during the 1950's, pointing out how the change in the pattern during those years had caused a downward trend in general business conditions. It was an adjustment period, he said, caused by the transition in Oregon from primary dependence upon the lumber industry to a more diversified economy. Many signs for the future are encouraging, he said. Only 33 per cent of Oregon's present income is geared to the lumber industry. Oregon is now at the crossroads, determining what sort of state it wants to be. He cautioned that perhaps much would be lost in natural beauty and recreational value if there were to be too much emphasis placed on new industry.

The second annual chapterama, in which each chapter offers some form of entertainment during the first evening of the convention, was again a big success. Following a no-host dinner, the seven chapters proceeded to bring fun and laughter to the group. Typical entertainment were the "human" puppet act of the Clackamas chapter and the "Nursery Selling Silhouette" of the Emerald Empire chapter.

Landscape Talk

Lloyd Bond, landscape architect, was a first-day speaker, his subject being "Expanded Space for Living and Working." Mr. Bond illustrated his talk with numerous sketches, which he made as he went along. The big problem, he said, is to situate the house on the property so as to best utilize the grounds.

The outdoor living areas should

PREMIER
is
PREMIER
...in QUALITY
...in PACKAGING
...in PROFITS

The self-selling colorful line

BALES: COMPRESSED



Large Bales
7 cu. ft.



Plastic Bales

6, 4, 1½, ¾ cu. ft.

Poly-laminated inside and outside

BAGS: BULK-PACKED
READY TO USE

Now in
King Size
Bags

ready to use



King Size Bags

6 & 3 cu. ft.

poly-laminated outside
with separate
poly bag inside

Also
European
Peat Moss

10½, 7½, 6,

4½ cu. ft.

bales

PLASTIC PACKAGES



3 & 1 peck

Any combination shipped in one carload
Send for prices now

Premier Peat Moss Corp.,
535 Fifth Ave., New York 17, N.Y.
MUrray Hill 2-8586

PREMIER
Sphagnum
PEAT MOSS

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40c line; minimum order \$4.00.

HELP WANTED

LANDSCAPE SUPERVISOR for Delaware nursery specializing in high-quality landscape work, mostly carriage trade. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running four trucks and maintenance of four trucks and other related equipment); also assist in preparation of bids for some project work. Designing by others. Applicant must be between 35 and 50 years old; interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of cultural requirements of ornamental plants, ability to move large trees and experience with execution of large-bid projects. An unusual opportunity in a young, growing business in a high-income community. Attractive salary, paid vacation, A. N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

GROWER

Eastern Pennsylvania nursery has opening for an experienced foreman to take charge of a small growing and propagating house, outside bedded plants, show grounds, handling the shipping and local orders in our retail division, supervising helpers as needed. Liberal salary and year-round work with opportunity for a qualified nurseryman. When writing, please give age, single or married, references and salary required. For further details write Box 686, care of American Nurseryman.

HELP WANTED

LANDSCAPE SALESMAN-SUPERVISOR

To operate landscape department nursery, greenhouse and garden center. Permanent position. Located approximately in the population center of South Bend, Mishawaka, Elkhart, Ind., and Niles, Mich., area.

VAUGHAN'S NURSERY
R. R. 2, 15910 Cleveland Rd.
Granger, Ind.
Phone: South Bend, CE 3-3318

HELP WANTED

AN UNUSUAL SALES OPPORTUNITY

We need three single men to begin training for traveling positions selling nursery stock wholesale. Salary while training—\$350 per month. If chosen for sales territories, earnings of \$1,000 per month or more are possible. Your immediate attention is necessary. Write Box 669, care of American Nurseryman.

HELP WANTED

SALESMAN

Sales representative, now calling on nurseries and garden centers in central states, who can handle additional line consisting of liners, canned and B&B evergreens on commission basis. State territory covered, present lines and references. Write Box 678, care of American Nurseryman.

HELP WANTED

NURSERYMAN

We need an experienced nurseryman to take complete charge of specimen nursery operation. Work includes all horticultural aspects of plant maintenance, plus planting, digging and filling orders.

Must have good general knowledge of nursery operations and ability to supervise labor.

Good opportunity for advancement and future security in a well-established midwest retail nursery. House available.

Write full particulars of experience, salary required, etc., to Box 672, care of American Nurseryman.

HELP WANTED

Landscape salesman to handle retail trade in garden center at well-established nursery in western Massachusetts. Should know plant materials and be qualified to make residential calls when directed. No soliciting. Position open now. All replies strictly confidential. Send replies to Box 692, care of American Nurseryman.

HELP WANTED

Experienced and successful landscape salesman for one of Connecticut's largest and most progressive landscape and tree expert firms. Send data sheet listing experience, age and references; include photograph. Only man desiring permanent position will be considered.

OSCAR F. WARNER,
Landscape Forester
24 E. Aurora St. Waterbury, Conn.

HELP WANTED

EXCELLENT OPPORTUNITY
Wholesale salesman wanted to sell a complete line produced by one of the leading nurseries in the midwest. Established territory available on commission basis assures excellent income at once. Write Box 645, care of American Nurseryman.

HELP WANTED

Landscape foreman in central New Jersey. Must have past experience in handling men. Give full details, references and salary required in first letter. Write Box 693, care of American Nurseryman.

BUSINESS OPPORTUNITY

Partner wanted in long and well-established retail and wholesale nursery and garden center in northern New Jersey. Must have experience in all phases of landscape work as well as designing and selling. Must have pleasing personality, be dependable and honest. Reply to Box 688, care of American Nurseryman.

FOR SALE

The following used equipment is offered subject to prior sale. New instruction book and parts list will be supplied with each machine.

1 model L-927 Bean Roto-Mist Sprayer, \$865. Mounted on factory-made trailer. Equipped with nozzle lights for night spraying. Hydraulic controls. Capacity: 24,800 cu. ft. per minute. 24-in. nozzle. Vertical delivery: Up to 100 ft. Power: Chrysler industrial engine with starter. New battery. Condition: Excellent. Has had very little use. Completely winterized, but ready for immediate use.

1 model 125-T Farquhar Iron Age Mist Sprayer, \$245. Mounted on factory trailer. Has been equipped with nozzle lights for night spraying. Capacity: 11,000 cu. ft. per minute. 12-in. nozzle. Vertical delivery: Up to 100 ft. Power: Wisconsin VE-4 engine with starter. Condition: Good. Needs new battery and shutoff valve. Terms: Cash. F.O.B. Decatur, Ill.

THE SHADE TREE SERVICE
John Bean Dealer
Decatur, Ill.
Phone: 8-3968

SITUATION WANTED

Young nurseryman with college degree in landscape architecture with 3 years' experience in landscape architecture, construction, supervision and sales. Age, 26. Desire permanent responsible position in design and/or sales with reputable firm in California, Arizona or Florida. Complete resume available with top references. Address replies to Box 695, care of American Nurseryman.

SITUATION WANTED

Married man, horticultural graduate, 10 years' foreman experience in landscape, garden center and nursery, desires year-round position in vicinity of New York city. Write Box 691, care of American Nurseryman.

WANTED

Young, conscientious landscape architect with construction experience, to work on design and as foreman of construction, with view to eventual management and possible ownership of business. Write Box 673, care of American Nurseryman.

WANTED

Aggressive and responsible individuals or sales organizations to assist in wider distribution of our high-quality lining-out stock. Production capacity 250,000 plants. Address Box 690, care of American Nurseryman.

FOR SALE—Attractive garden center set-up in southeastern Massachusetts. Illness forces sale of expensively remodeled 11-room home, 2 barns, 3 outbuildings, 14x35-ft. Orlyt greenhouse, lath house and 10 acres of land. Had excellent reputation for nursery stock, hardy mums, house plants, gifts, garden supplies, etc. A real buy at \$35,000. Write Box 658, care of American Nurseryman.

HELP WANTED—Landscape salesmen needed by one of Florida's oldest nurseries. Must be college trained or experienced in landscape selling. Opportunity to work on west coast of Florida where you are limited only by your own abilities. Contact: ROYAL PALM NURSERIES, Box 698, Oneco, Fla.

WANT ADS

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

FOR SALE

2-acre established retail nursery. Nice 4-room beautifully landscaped home, garage and other buildings. General landscape evergreens, shrubs and perennials. Few fruit trees, strawberry plants and blueberries. Fertile soil, drained. Close to South Bend area. Health condition forces change of climate. Price \$10,000.

PINE RIDGE NURSERY
Rt. 1 Plymouth, Ind.

FOR SALE

HUNTINGTON, L. I. NURSERY

6½ fertile acres in top residential and estate area. Fully planted with fine large stock of rare and excellent varieties of deciduous trees and shrubs and azaleas. Lovely, modern ranch house. Good trade. Priced right for prompt sale. For particulars and appointment to inspect, write Mitchell W. Smith, Horticultural Realtor and Appraiser, HORTICULTURAL REALTY CO., 36-52 Main St., Flushing 64, N. Y.

FOR SALE

Pole pruners, 12-ft., 14-ft., 16-ft. aluminum alloy poles, tapered at both ends. Very light; no splinters. Shiny finish, unbreakable. Complete with tight-fitting, heavy-duty Seymour Smith 1½-in. cutter. A real bargain. 12-ft., \$20; 14-ft., \$22; 16-ft., \$24. F.O.B. Cutter heads alone, \$8 (\$10 value).

BOXWOOD BEND NURSERY
Box 422
Short Hills, N. J.

FOR SALE

Retail nursery, landscape business, modern house, large block and frame building, large lath houses, 11½ acres of land. Reasonable for quick sale. With or without inventory. Located north central Ohio.

PAUL'S NURSERY
R. D. No. 3 Shelby, Ohio

FOR SALE

OPPORTUNITY

To acquire one of the largest landscape nurseries in the middle west. Adjacent thriving city consumes trees of all sizes, especially large trees to replace ravages of Dutch elm disease. No advertising required to sell stock. Owner wishes to retire. Write Box 694, care of American Nurseryman.

FOR SALE

Established nursery on 2½ acres in Iron Mountain, Mich., on 4-lane U. S. highway. Trading population 40,000. Well-stocked; \$20,000 general nursery stock in the heart of the hunting, fishing and resort area. A sacrifice at \$25,000. Selling terms to suit buyer. NORTHLAND PROPERTY SALES & INSURANCE
Iron Mountain, Mich.

FOR SALE—Overhead Skinner Irrigation: Twelve 300-ft. lines with 100 ft. of 1½-in., 100 ft. of 1-in. and 100 ft. of ¾-in. pipe per line. Tapped every 3 ft. All galvanized pipe. Priced for quick sale at \$50 per line with valve turning union and 5-ft. riser. This irrigation is in very good condition and is made right. Write: SHANK FARMS, Granby, Mo., or phone: Davis 5-4414 at Diamond, Mo.

FOR SALE—Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40¢ per line (minimum order \$4.00). Your ad will be seen by more than 9800 American Nurseryman readers.

relate closely to the indoor living areas, he emphasized. The wrong placement of a home on the property can ruin the outdoor possibilities. Among the many contemporary ideas which Mr. Bond favors is that of using a wood deck over a sloping area instead of filling in the spot with rocks or gravel. Often, the necessity of saving an old tree or some other natural beauty spot enters into the picture as the landscaping is planned. The important thing is to utilize existing situations to the best of one's ability.

He also discussed remodeling an older home and obtaining the most from the outdoor living area at the same time. One example dealt with the development of a sloping area into two different levels, providing a play area and a lawn area for outdoor living, the two being separated by a wall. The same principles he described for home situations, he said, can be used for commercial developments.

John Wieman, superintendent, bureau of nursery service, Portland, described "The Oregon Picture." The work of the department is regulatory. Nematodes have taken the place of viruses as enemy No. 1 on the nurserymen's list. He urged caution and avoidance of panic in the situation, however. He said there is no such thing as 100 per cent clean stock anywhere.

Dr. Robert Ticknor, Willamette valley experiment station, had as his topic, "It's Your Experiment Station—Use It." Irrigation was obtained at the station. Preplanting weed control experiments, using various weedicides, are under way. Work is also being carried on with dwarf rhododendron crosses.

As a public relations idea, said the speaker, various small and medium-size trees are being planted along the roadway in front of the station. Other deciduous trees and conifers are also being planted nearby. In time, he said, correct labeling of the trees will be done. Another study being conducted at the school concerns the effect on plants of fumigants that are being used for the control of nematodes. Other experiments being conducted are connected with small fruits and vegetables.

It is hoped to have plastic houses and lath houses at the station for research before long. A study of growth acceleration in connection with light is to be made. Facilities for the future, which will expand the work, will include a greenhouse and a laboratory.

Melvin Conklin, economist, agri-

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cultural experiment station, O. S. C., Corvallis, presented facts and figures in connection with a recent study of purchases of trees, shrubs, plants, seeds, bulbs and related items by 505 representative homeowners in the Portland area. Complete facts of the survey will be made known at a later date, after further analysis of the information has been made. One of the most interesting facts disclosed was that retail nurseries sell 72 per cent of the nursery stock sold; garden supply stores and feed and seed stores, 7 per cent; trade-connected firms, another 6 per cent, and supermarkets, groceries, other food stores, department stores, hardware stores and variety stores, only 6 per cent. A weakness disclosed by the survey was the fact that nurseries are not selling so many related items as they should.

Presidents and Secretaries Meet

The morning of the second day of the convention opened with a presidents' and secretaries' breakfast, which was attended by the presidents and secretaries of each chapter as well as the state officers. It was a fine time of fellowship and exchange of information in which all chapters participated. Chapter representatives also reported to the general convention at one of the business sessions. Some excellent committee reports were given at the business sessions by the various chairmen.

The lobby of the Eugene hotel was beautifully "landscaped" by members of the Emerald Empire chapter, who created a lovely patio and garden scene that thrilled all who saw it. The covered patio framework and the beautiful boxes constructed for the event caught the eye of Multnomah county fair manager Duane (Spike) Hennessy, who requested that the entire background material be sent to the Multnomah "Parade of Gardens" show at Gresham during late April and early May.

Something new added to the O. A. N. convention this year was the "Wishing Well" session, where "equipment I wish I had," "answers I wish I knew," "plants I wish I could get or grow," and other wishes were drawn from a wishing well for answer by head wisher Verl Holden, Salem, and assistant wishers (the panel), Ivan Arneson, Canby; Dan Schmidt, Jr., Troutdale; Wayne Melott, Forest Grove; Norman June, Portland, and W. P. Nuffer. Audience participation was excellent.

Wishes expressed concerned such

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4—Mum Pot	6 1/2-in. diam., 6 1/4 ins. high	34.50	472
5—Rose and Shrub Pot	8-in. diam., 9 1/4 ins. high	43.50	553

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topics as better control of plant sizes in containers; reviving stunted plants in containers; accounting; budgeting; the right quality of stock to handle; peat pot use; correct heating for propagation flats, and mulching materials.

An interesting point disclosed concerning propagation cables was that peat moss should never be used next to the heating cable, as it will cause the cable to burn out. Instead, sand should be placed next to the cable. Another interesting point concerned the amount of sawdust mulch to apply around nursery stock. The recommendation made by the panel was one-half inch of sawdust mulch about small plants and from three-fourths to one inch around larger plants. Three or four inches was recommended for seedlings in rows.

An interesting part of the "Wish-

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ing Well" program consisted of on-the-spot examination of stock and grading of the stock presented. It was agreed that the "American Standard for Nursery Stock" should be used in all cases.

A large portion of the second afternoon was given over to a meeting of Oregon chapter 12, American Association of Nurserymen,

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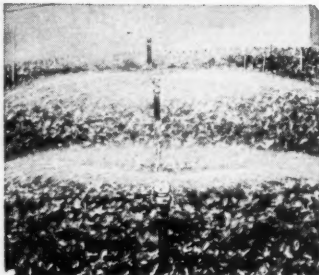
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Orifice Size	Spray Angle Degrees	Gallons Per Hr.	Coverage 4-Ft. Height
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4.6	160	2.30	36 ins.
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led by President Joseph Klupenger. The first speaker on this program was Pat Dering, Scappoose, who talked about the A. A. N. management conference of 1959 and the one scheduled for next August at Lake Arrowhead, Calif. He described a typical day's program at the conference, which includes everything from classroom work to recreation, all enclosed in a package of fine fellowship. No examinations are held, and one need only be a good listener, he emphasized. At the close of his talk he showed colored slides of the Sagamore conference center.

L. H. McGuire, region VI director of the A. A. N., spoke on the subject of "Who Is Your Competitor?" Re-emphasizing some of the earlier remarks made by Mr. Curtis, he, too, urged greater political participation by nurserymen and support of the United States horticultural census.

He started his principal remarks by stating "Your profits are your competitor." Reminding nurserymen that their industry is becoming big business, he said that this fact in itself attracts attention. People and industries with money to invest are beginning to look upon the nursery business as a good place in which to invest capital. He told about the pilot garden store being started by Woolworth's in California. He stated that such operations can not be legislated from the picture; instead, he said, the nursery industry has to live with them. An advantage held by nurserymen in this respect, said Mr. McGuire, is that nurserymen have the knowledge which the outsider does not have.

Elected as A. A. N. chapter 12 officers for the ensuing year were the following: President, Robert Snodgrass; vice-president, Reed Vollstedt, and secretary - treasurer, Paul Van Allen.

President's Banquet and Ball

The final evening of what was acclaimed as the O. A. N.'s most successful convention to date came to a close with a fine banquet and ball, honoring the president. Tables were beautifully decorated with spring flowers, the head table having red carnations. M.C. for the evening was James Doty, Portland, a past president of the organization. Outgoing President Robert Snodgrass was presented with a beautiful plaque, commemorating his year in office.

Joseph Klupenger was given a suitably inscribed desk set in appreciation for his excellent service to

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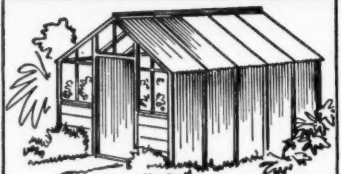
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the association and the industry as chairman in 1959 of the Oregon Centennial "Garden of Tomorrow" committee. Ed Erickson, of the Portland park bureau, and Ed Boatright, manager of the "Garden of Tomorrow," were given certificates of appreciation by the association, the presentation being made by Mr. Klupenger. Mr. Doty installed the new officers, including President Reed Vollstedt, who pledged his active support to the association. Outgoing President Snodgrass expressed his appreciation to the officers and others who worked so diligently through the year. Past presidents of the association who were present were honored.

Mr. McGuire, in behalf of the American Association of Nurserymen, presented Paul Van Allen with an award in appreciation of his efforts in bringing new members into the A. A. N. Mr. Van Allen was second in the United States in 1959 in this regard.

One of the real highlights of the convention was the conferring of honorary membership on Avery Steinmetz, Portland, a past president of the American Association of Nurserymen and of the Oregon Association of Nurserymen. The official presentation was made by Earl Housewert, Portland, another O. A. N. past president and long-time friend of Mr. Steinmetz. Mr. Steinmetz, when receiving the award, remarked that he had long ago figured that in becoming a part of the nursery industry he had joined with a group of "good grafters." Mrs. Jane Schmidt, Troutdale, won the transistor radio prize.

Chairman Verl Holden of the entertainment committee topped off a fine convention with some excellent entertainment and dancing to the tune of Bill De Souza's band.

ARBORISTS AT CHICAGO

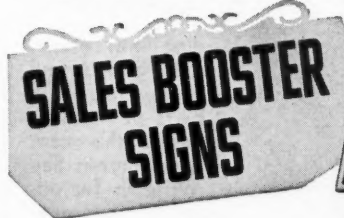
[Continued from page 18]

pounds in controlling injurious insects and diseases, he said the public should have some assurance that arborists know how to use these materials properly. Compulsory licensing laws seem to be the most practical way of providing this assurance and of protecting the public against unscrupulous and incompetent workmen.

Safety Goals

"Safety — Let's Do Something About It," was the subject of a paper presented by Edward C. Shearer, Farrens Tree Surgeons, Inc., Jacksonville, Fla. Stressing the fact that

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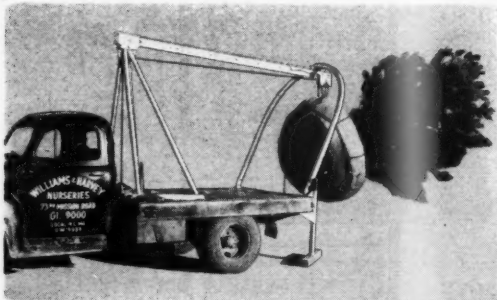
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accidents are costly, he said every possible precaution should be taken to avoid accidents. He suggested that tree service organizations set high goals in safety for their firms, even to the extent of complete elimination of all accidents. "Safety goals that are too low," he warned, "may lead to an increase in accidents."

Methods that may be used to prevent or reduce the number of accidents include top-management discussion with workmen concerning safety practices; maintaining tools and equipment in good condition; use of proved safety devices, such as safety gloves and hard hats, and designing and developing equipment that makes for greater safety on the job. The foreman of a work crew should not serve as the driver of a truck to and from the job; "—he is too likely to be thinking of work problems and not paying enough attention to his driving," Mr. Shearer said, "and this is very likely to lead to an accident."

Tree Diseases and Their Control

Using a series of color slides to illustrate his remarks, Dr. J. C. Carter, of the Illinois Natural History Survey, Urbana, discussed "Shade Tree Diseases and Their Control." Leaf-spotting diseases he described included anthracnose of sycamore, leaf spot of elm, tar spot of maple, leaf blotch of chestnut and the rust spots on the leaves of the deciduous host plants of cedar-apple and cedar-hawthorn rust.

Anthrachnose on sycamore can be distinguished from late frost injury, he said, by the small, dark brown fruiting bodies of the fungus that develop along the veins of affected leaves. Emphasizing that fungicides provide protection, but do not cure, Dr. Carter said that to combat leaf-spotting diseases the sprays must be applied before infection occurs. In the case of sycamore anthracnose, he suggested three sprays of an organic mercury, the first to be applied before the buds start to swell, the second when the buds are swelling but before the leaves appear and the third about a week after the second spray.

To prevent spore development from the galls of cedar-apple and cedar-hawthorn rust on juniper, he suggested the use of Acti-dione when the spore horns are developing and a midsummer spray of Fermate or similar material to protect junipers from infection by wind-blown spores that develop in the fruiting bodies of the disease on the leaves of hawthorns and apple trees. The deciduous hosts of the disease can be protected against infection by spraying

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No. 1000 (Illustrated)—A four-tier waterfall fountain with adjustable water flow. Bowl sizes are 18, 23, 28 and 35 ins. in diameter.

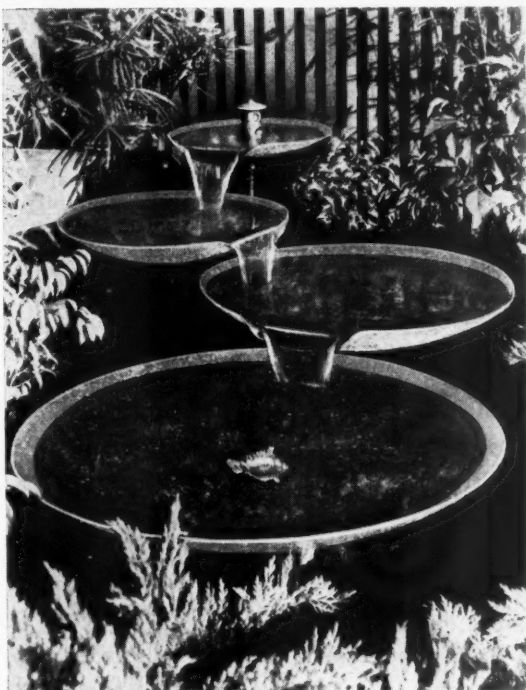
Wholesale selling price, **\$79.95**. Suggested retail is \$159.95. Bowl colors are: Sea-blue, black, avocado-green, coral and desert-beige.

Also available No. 2000—A three-tier waterfall fountain with adjustable water flow. Bowl sizes are 18, 23 and 28 ins. in diameter.

Bowl colors are: Sea-blue, black, avocado-green, coral and desert-beige.

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with Fermate or similar fungicides during April or early May in Illinois.

Stem Diseases

Stem diseases described by Dr. Carter included a fungus disease related to dothiorella that affects sour gum and an ailment of red pine called "decline" that produces basal cankers on the trunk, rapid browning of needles and death of the tree. He warned that in pruning back infected branches all tools should be sterilized after each cut.

Vascular diseases that were mentioned included verticillium wilt, which is known to affect 15 or more common tree species; elm phloem necrosis; Dutch elm disease; oak wilt, and wetwood. Elm phloem necrosis is caused by a virus, wetwood by a bacterium, while the others are caused by fungi.

Elm phloem necrosis, Dr. Carter

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"Rite in the Rain"
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said, has not spread north of a line extending roughly east and west through Peoria, Ill., and Columbus, O.; however, south of this line the disease has become more active in the past few years. Briefly describing the Dutch elm disease, the methods of sanitation and spraying used in control measures and the beetles that serve as carriers of the fungus, he emphasized that "any elm material

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in which the bark beetles may breed must be destroyed," as an important part of the control program.

The wetwood disease is common, he said, especially in elms, and its injurious effects can be reduced by the installation of drain tubes. This disease, Dr. Carter warned, should not be confused with a white, frothy fluxing occasionally seen on tree trunks; this latter ailment affects the

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cambium region and can be controlled by cutting out infected bark tissue and applying a good wound dressing material to the exposed wood.

Shade Tree Insects

"The 10 Most Serious Shade Tree Insects of the Midwest" was the subject of a paper presented by E. F. Herrbach, entomologist of the Standard Oil Co., Chicago. These were listed as being cottony maple scale, elm scurfy scale, oyster-shell scale, European elm scale, cankerworm, tussock moth, European elm bark beetle, spider mites, aphids and leaf-hoppers. Using color slides to supplement his comments, Mr. Herrbach described these plant pests and suggested control measures for each.

For control of cottony maple scale, a pest that appears to be increasing in the midwest, he suggested a 3 per cent Superior oil dormant spray on soft maple, elm and other species that will tolerate oil, or a summer foliar spray of malathion, DDT or similar material, applied when the scale insects are in the crawler stage. Similar sprays, he said, provide effective control of other scale insects.

Cankerworm and tussock moth, like other leaf-eating insects, can be controlled by spraying infested trees, while the caterpillars are still small, with DDT or similar insecticides. Mr. Herrbach warned that in Illinois there are two generations a year of tussock moth, a spring brood and a late summer brood. Because of this, he said, two sprayings annually may be necessary for satisfactory control.

Seek DDT Substitute

With respect to control of European elm bark beetles, carriers of the Dutch elm disease, he said DDT is still the most widely used insecticide, but that other materials are being tested in an effort to develop an effective compound that is non-toxic to wildlife.

For control of spider mites and such closely related pests as clover mites, Mr. Herrbach suggested spray applications of malathion or similar materials. To prevent clover mites' entering houses, he said that, in addition to spraying the grass around the house foundation, a 3-foot-wide strip close to the wall should be kept clear of all vegetation. He added that clover mites, normally living on grass plants, will not readily cross bare soil. Aphids and leaf-hoppers, he said, can be controlled with contact insecticides, such as malathion or nicotine sulphate.

"Trees in Tubs for the Downtown Area" was discussed by John Z. Dul-



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AND IT'S PRICED RIGHT!

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100	.75
250	.70
500	.65
1000	.60
2000 or more	.55

Sample postpaid **\$1.00**. Send for yours today and see just what it does; or order as many as you need with full confidence.

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WHITESHOWERS, INC.

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ing, Duling Tree Expert Co., Muncie, Ind. Using color slides, Mr. Duling described operations in which a number of trees were planted in concrete tubs during the past year.

The tubs, obtained from a Chicago firm, were approximately 40 inches in diameter and 24 inches in height, weighed 450 pounds and were made of precast reinforced concrete. Flowering crab apples and Black Hills spruce have been used to date in the plantings, he said, adding that of the first planting of 10 crab apples only one failed to survive. He remarked that the trees came into full bloom last spring and were highly attractive.

The first planting was done about a year ago for the owner of a large department store at Muncie. The plan was so well received that later other merchants engaged his firm to do similar work. Fertilizer is mixed with the soil used in planting and the trees are sprayed with a commercial preparation to retard transpiration. The tubs are arranged to balance the doors and windows of the stores, and are placed within 18 inches of the curb line.

Driver Training

The final paper on the program was presented by Henry J. Ehlert, Surplus Underwriters Agency, Inc., Elgin, Ill., on the subject "Driver Training for Accident Prevention." Stating that insurance premiums amount to from 8 to 12 per cent of the expenses of many firms that use trucks, Mr. Ehlert said that the only way insurance premiums can be lowered consists in reducing the number of accidents. He said the officials of every firm should conduct safety meetings periodically for their drivers, in order to hold accidents to a minimum.

The major causes of highway accidents, he said, include: (1) Following another vehicle too closely; (2) stopping too quickly or without giving adequate warning; (3) overtaking and passing another vehicle without being sure the road ahead is clear; (4) failure to stop at stop signals or stop signs; (5) driving while under the influence of alcohol; (6) failure to signal at least 100 feet before making a turn; (7) driving through changing stoplights; (8) defective brakes; (9) poor visibility at night, due to fogged or dirty windshields or improperly adjusted headlights; (10) stopping for repairs without using warning flares or driving completely off the pavement; (11) carelessness with respect to pedestrians, especially children and aged people; (12) disregard of haz-

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sprayer for
home gardens*



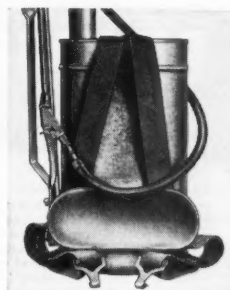
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Here's the new Challenger . . . the latest in a long, progressive line of Champion piston-type knapsack sprayers. It's lighter, has less capacity and operates on lower spraying pressure than the usual knapsack sprayer—a few of the features that make the Challenger the handiest sprayer for women gardeners to use. Uniform pressure of 100 lbs. is easily pumped as needed; all pressure is confined to its heavy brass pressure cylinder. Sprays from pint to 3½ gals. at one filling; pumping action agitates solution. Extension tube, with 48-in. hose and hand-controlled shut-off valve, makes it easy to spray underside of leaves of low plants without bending over.

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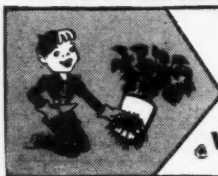
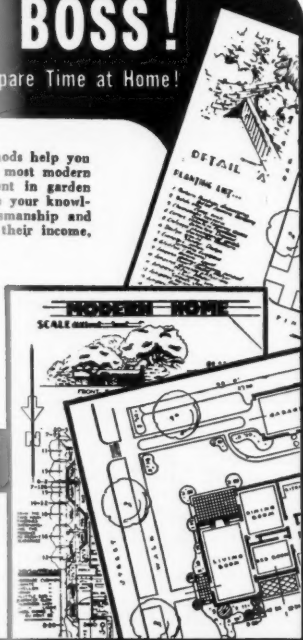
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ardous conditions caused by rain, snow and ice; (13) failure to use adequate safety chains when towing another vehicle.

The time of day when the greatest number of accidents occur, Mr. Ehler said, is 4 to 6 p. m., during the winter months, and just after dusk during the summer. Each driver should know thoroughly the laws of the state in which he is driving, carry the proper accident forms and, if an accident does occur, he should fill in the forms promptly. After an accident, the driver should obtain all pertinent information, including the names and addresses of witnesses, and call his insurance agent.

The meeting closed with a panel discussion of spraying trees with mist blowers and hydraulic sprayers and a display of several new equipment improvements that had been devised by men in the field. The next meeting of the National Arborist Association will be held in August, 1960, at Boston, Mass.

NEW YORK GROUP MEETS

The Northeastern New York Nurserymen's Association met January 21 at the Ash Grove Inn, Saratoga Springs, N. Y., with 30 members attending. Robert Mower, Cornell University, Ithaca, N. Y., the speaker for the evening, presented a talk on "Turf" after a dinner and a business meeting. He gave information on new lawn maintenance products and then emphasized the importance of using good-quality seeds and adequate fertilizers for best results.

The next meeting has been scheduled for April 21 at the Crossroads restaurant, Latham, N. Y. Valteau C. Curtis, Callicoon, N. Y., president of the American Association of Nurserymen, and Dr. Weidhaas, Cornell University, will be guest speakers. Dr. Weidhaas will speak on the latest developments in the fight against diseases and insects affecting nursery stock. Myron J. Watkins, Sec'y.

CAROL DEAN NEW QUEEN

Carol Joan Dean, daughter of L. A. (Slick) Dean, a partner in the Arp Nursery Co., Tyler, Tex., was officially proclaimed queen of the 1960 Texas Rose Festival by President Henry Bell, Jr., at a special luncheon at the Willow Brook Country Club, Tyler, February 13. Miss Dean, who is 19, blue-eyed and red-haired, will reign over the 23rd edition of the rose classic October 13 to 16. She is a student at Southern Methodist University. She belongs to one of Tyler's pioneer families.

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MARCH 1, 1960

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COMING EVENTS

MEETING CALENDAR

March 1 to 3—New Jersey nurserymen's conference, Rutgers University, New Brunswick, N. J.

May 29 to 31—Texas short course for nurserymen, Agricultural and Mechanical College of Texas, College Station, Tex.

June 1 and 2—California Association of Nurserymen and the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, annual nurserymen's refresher course, Cal Poly campus.

June 5 to 7—Georgia State Nurserymen's Association, convention, Ida Cason Callaway Gardens, Pine Mountain, Ga.

July 17 to 20—American Association of Nurserymen, annual convention, Netherland Hilton hotel, Cincinnati, O.

GEORGIA MEETING DATES

The Ida Cason Callaway Gardens, Pine Mountain, Ga., will be the scene of the convention of the Georgia State Nurserymen's Association, scheduled for June 5 to 7. A tentative program includes talks on container-grown nursery stock, advertising, garden center profits and public relations. The Hon. Phil Campbell, state commissioner of agriculture, is slated to be present at the convention.

Fred C. Galle, superintendent of the Ida Cason Callaway Gardens, is chairman of the entertainment committee. Other convention chairmen are Aubrey Owen, Owen's Vineyard, Gay, Ga., exhibits; Calvin Harman, Stovall, Ga., tours, and Donald Hastings, Jr., H. G. Hastings Co., Atlanta, Ga., registration.

REFRESHER COURSE

The annual refresher course for California nurserymen, sponsored by the California Association of Nurserymen in cooperation with the department of ornamental horticulture, California State Polytechnic College, San Luis Obispo, has been set for June 1 and 2, according to a recent announcement in the C. A. N. Bulletin. The event will be held on the college campus.

SOUTHWEST TREE MEET

The program for the southwest shade tree conference, held in cooperation with the western chapter of the National Shade Tree Conference and scheduled for March 4, has been released by Lee Burkhart, general chairman of the southwest conference. The meeting will take place

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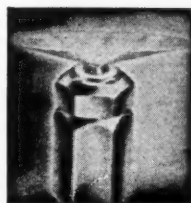
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American Nurseryman, Chicago 4, Ill.

on the campus of the University of Arizona, Tucson. Details of the program are as follows:

9 a. m.—Registration.

Chairman of the morning session, John Harlow, Tucson.

9:30 a. m.—Opening remarks by Lee Burkhart, horticulture department, University of Arizona.

9:40 a. m.—“Tree Selection for Landscape Use,” by Joe Folkner, University of Arizona, and Ernest Jensen, New Mexico State University.

10:05 a. m.—“New Landscape Trees,” by M. Van Rensselaer, director, Saratoga Horticultural Foundation, Saratoga, Calif.

10:45 a. m.—“Arizona State Parks Program,” by Howard Cox, state parks board, Phoenix.

11 a. m.—“Eucalyptus Species of Trees for the Southwest,” by Max Watson, San Jose, Calif., and Bernard Benson, Southwestern Arboretum, Superior, Ariz.

11:35 a. m.—“Tucson City Parks Program,” by Gene Reid, superintendent of parks, city of Tucson.

12 noon—Lunch.

Chairman of the afternoon session, James Leader, Phoenix.

1:15 p. m.—“Tree Problems City and Homeowners Face,” by Roy Wells, Culver City, Calif., president, western chapter, National Shade Tree Conference.

1:45 p. m.—“Is Pruning Necessary?” by Steve Fazio, University of Arizona, and William Schildmacher, Tucson public schools.

2:20 p. m.—Guided tour: “Campus Trees and Demonstrations,” led by Joe Folkner and R. B. Streets, University of Arizona; Gene Adams and Dan McPhedran, Tucson, and Bryan Thompson, Phoenix.

3:20 p. m.—Questions on and discussion of tree problems.

3:45 p. m.—Remarks by Keith Davey, Davey Tree Surgery Co., San Francisco, Calif.

MICHIGAN GARDEN CLINICS

The third biennial Kalamazoo landscape and garden clinic will be held March 9 and 10 in the County Center building, Kalamazoo, Mich. Vern Hintz, county agricultural agent, is chairman. Assisting will be the Kalamazoo Valley Landscape and Nurserymen's Association, the Kalamazoo garden council, the Kalamazoo Rose Society, the Kalamazoo city parks department and the Audubon Society. Cooperation for publicity is being given by the Kalamazoo Gazette and WKZO radio and TV stations.

Varied programs will be conducted at the same time to meet gardeners' needs. Exhibits will be staged by the landscape men and nurserymen's association, lectures will be given by leading men in the horticultural field and film showings will be continuous. There will be both afternoon and evening meetings, and admission will be free.

Grand Rapids' Second Event

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its second annual garden clinic for March 16 to 18 at the Civic Auditorium, Grand Rapids, Mich., according to Jim Jones, secretary of the association. Features of the clinic will include a display of the downtown development program, as it is of interest to the landscape man; a display that will demonstrate the current activities of the city parks department, and a display by the local garden club master group.

The G. R. N. L. A. will feature 12 displays on design ideas, various plants and their usage and maintenance. Special lighting will be employed to hide the sidewalls and the ceiling, in an attempt to create an outdoor effect.

Seminars at Lansing Show

The garden show scheduled for March 5 and 6 in the Artillery Armory, Lansing, Mich., will have the added feature of seminars, conducted by speakers from Michigan State University, in a room off the main exhibition hall. Information will be provided on lawn building and maintenance, pruning techniques, planting methods and landscape construction features, such as walls, fences and patios. Landscaped scenes and gardening equipment and supplies will also be exhibited. This event is

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EASTERN FLOWER SHOW

The 89th annual New England spring flower show, scheduled for March 13 to 21 at Wonderland park, Revere, Mass., will feature old and new trends in garden design, as well as in plant materials, equipment and supplies. Eight small home gardens, each distinctive in its layout and use of plant materials, will be among the various exhibits that will occupy the grandstand, the mezzanine and the clubhouse at Wonderland. In charge of these gardens are Miss Rachel Warner, chairman, and Mrs. Richard Walcott, vice-chairman.

The interest in and need for small gardens for today's houses will be emphasized by several exhibitors, including Bay State Nurseries, Inc., North Abington, Mass.; the Old Colony Landscape Service, Weymouth, Mass.; Joseph Breck & Sons, Boston, Mass.; the Bartlett Gardens, Hamilton, Mass., and the Pine Gardens, Milton, Mass. Wayside Gardens Co., Mentor, O., will show a collection of De Rothschild Supreme hybrid azaleas.

NEWARK ROSE FESTIVAL

The 1960 Newark Rose Festival, held annually at the 17-acre rose garden maintained for the public by the Jackson & Perkins Co., Newark, N. Y., is scheduled for June 18 to 26. Two new hybrid tea roses — American Home and Hawaii — will be introduced. Among other festival events will be the selection of a 1960 rose queen; two fashion shows; a sterling bowl tournament, in which flower arrangers from many states will compete, and an exhibit of rose photography and paintings. An open house will be held June 20 for all commercial rose growers, and an American Rose Society day will be held June 25.

RUTGERS STAFF ADDITION

Elwin R. Orton, Jr., 30, began work February 1 as an assistant research specialist in ornamental horticulture at the agricultural experiment station, Rutgers University, New Brunswick, N. J.

According to Dr. William E. Snyder, head of the ornamental section of the department of horticulture,

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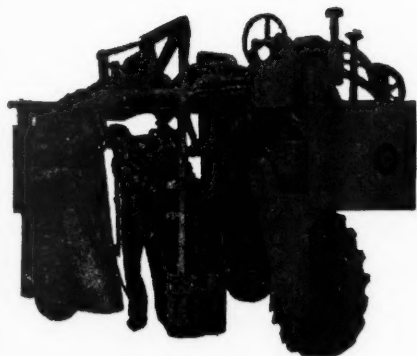
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He is a native of North East, Pa., and received the bachelor of science degree from Pennsylvania State University. He has a master of science degree from Ohio State University and he has also been a student at the University of Wisconsin at Madison, Wis.

PENNSYLVANIA MEETING

[Continued from page 8]

vancement of the weekly maximum compensation from \$37.50 to \$42.50, said Mr. Vick. No changes were made in the medical or hospital benefits. This increase, said M. Vick, was due, as none had been made since July, 1956.

Mr. Vick related that the Pennsylvania workmen's compensation bureau is now making a study of the rate classification code 609, that is, landscape contractors without nurseries. The rate for them is now \$1.85 per \$100. The study is to determine

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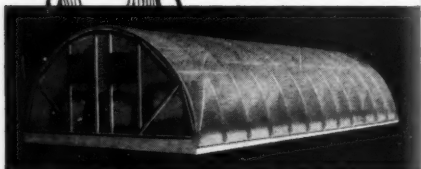
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if landscape contractors should be continued under code 609 or should be put into the landscape nursery code or a code of their own. Such a study, said Mr. Vick, may result in a decreased rate for landscape contractors without nurseries.

Reporting as chairman of the necrology committee was Kenneth G. Stein, who related that John Humphreys, Andorra Nurseries, Inc., Lafayette Hill, died December 29, 1959.

Report on Sales Tax

John Styer was next called on for a report as chairman of the special sales and use tax committee. The committee, he said, was formed to clarify the position of the nursery industry in respect to the sales tax law. He reviewed the ruling made last August which said all retail sales of plants which are not planted are subject to a 4 per cent sales tax. Sales of plants which are planted are contracts, which are to improve real estate, and landscape contractors must pay a 4 per cent use tax. Landscape contractors do not collect the 4 per cent, but pay on the cost of goods used, such as plants, peat, spray material, etc. No tax is chargeable to a customer or payable on labor costs or other charges on landscape jobs.

Each firm, said Mr. Styer, is on its own in dealing with the sales tax bureau, as far as plants grown in its own nursery and used on a job are concerned. When experiences were asked from the audience, one owner said he takes one third of the retail price of the plants and cost of supplies and pays 4 per cent of this amount as use tax. If all stock is grown, less could be paid, he added. Another owner said he pays 4 per cent of one third of the invoice price of material purchased and 4 per cent of one third of the retail price of stock grown.

Final Committee Reports

Giving the report for the public relations committee was its chairman, Walter Pitzonka, Jr. He stated that the P. N. A. had taken a first prize in the Philadelphia flower show. He also related that the western region of P. N. A. had listed its members in the yellow pages of the classified telephone directory. Mr. Pitzonka mentioned briefly the activities of the association as far as the part it played in staging the A. A. N. convention which was held at Philadelphia last summer.

At the final business session, Friday afternoon, Curtis Porterfield, A. A. N. secretary, listed several

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problems which the audience wished to know more about. Taxation of growing nursery stock, the wage-hour situation, public relations and the A. A. N. management conference were problems discussed. In addition to the two conferences scheduled for August 21 to 26 this year there will also be an advanced course for those who attended a previous course at Sagamore, announced Mr. Porterfield.

To complete the final group of committee reports, John Seyler was called upon for his as chairman of the legislative committee. During the 1959 session of the state legislature, 3,739 bills were introduced, he related. The bill to license landscape architects was referred back to a committee and died a natural death. It cannot be reintroduced until 1961, he stated.

The Sunday blue laws have been studied, but no mention is made of plants. However, it is suggested by the committee that nurserymen do not sell garden tools on Sunday. The committee, said Mr. Seyler, strongly recommends that the P. N. A. engage an attorney at Harrisburg to keep a watch on laws possibly affecting the operations of the nursery industry.

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Rhododendron Nursery, Stroudsburg, was ill in the hospital and could not attend the convention, his report as chairman of the state and federal nurseries' committee was read. It was reported that the state nursery was going to sell surplus hemlock seedlings at auction, but due to the efforts of the P. N. A. and Pennsylvania Christmas Tree Growers' Association, the sale was stopped.

Consider Full-Time Secretary

The final report, delivered by Jesse Flory, LaBars' Rhododendron Nursery, was for the special committee appointed a year ago to study the need and desirability of obtaining a full-time secretary. It was concluded by the committee that it was desirable to have such an employee, but the budget sum set up for one came to between \$18,000 and \$20,000 a year. As the total income of the association is only \$10,000 at present and dues were increased just a year ago, it was deemed inadvisable to proceed. The idea of joining with another group and sharing the services of a paid secretary was rejected. The committee believed the job must be done right or not at all. It did suggest, however, that the amount now allowed the secretary's office be increased, said Mr. Flory.

Final action of the convention was a meeting of A. A. N. chapter 28, region I. The only action was election of delegates and alternates to the 1960 convention in Cincinnati. O. Holdover delegates include Herbert Hoechstetter and Walter Pitzonka. Elected delegates for two years were Fred Mummert and John Seyler. Chosen alternates for one year were Wilbur I. Nisley, Louis Wissenbach, Jesse Flory and Tom Yerkes.

BENTON, PA., MEETING

Members of the Columbia County Ornamental Nurserymen held a meeting January 21 at Yost's restaurant, Benton, Pa., with Vice-president Mac Ritter, Ritter's Nurseries, Benton, as chairman.

Among the topics discussed was a plan to disseminate helpful gardening notes to customers. One proposal was a calendar for home use having timely gardening notes on each month's date sheet, with a format that would permit the suggestions to be folded into a booklet after the calendar sheets had served their purpose.

Chairman Ritter also led discussions pertaining to the seasonal uses of rabbit repellents, weed killers,

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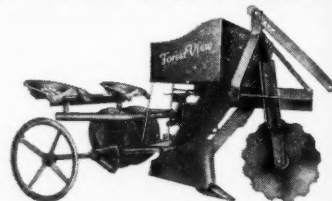


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plant foods and insecticides. Colored slides showing landscaped home grounds in the Benton and Millville section were shown to the group by Mr. Ritter and his son, Harry. Members of the group exchanged lists of stock grown.

NORTHERN INSTITUTE

[Continued from page 20]

with the former being better from an appearance standpoint.

It was felt that antilitter campaigns over the past few years in California are having a beneficial effect. Dr. Stoutemyer said it behooves nurserymen to get behind all such projects.

Watering Problems

Mr. Butterfield noted that lawn watering usually results in two extremes. Automatic sprinklers produce more water than is good for trees, and hand watering does not produce enough to get to the roots. Usually, trees in a lawn are a problem and one must be prepared to pay a penalty for them. If there are trees in the lawn, one must consider the type of grass; that is, have a type of grass that will be compatible with the amount of water needed for the trees. Trees should be selected which will tolerate adverse conditions, such as wet, dry, saline, alkaline and compacted layers of soil.

In commenting on the last-named item, the speaker noted that compaction is becoming more of a problem on golf courses, due to the increasing use of golf carts. Compacted soil may be counteracted by the use of aerators, peat and organic materials; the simplest but least practical means is to avoid walking on the soil. Mr. Butterfield said that trees such as silver maple, sweet gum, etc., have shallow roots which spread out and thus can tolerate the usual shallow water practices. However, this type of tree will often lead to trouble with the lawn. On the other hand, walnuts are deep rooted, and more and more trouble is being encountered by subdividers who are building around walnut trees which were once a part of a walnut grove. He suggested that building a mound in the lawn and planting a tree on it is an effective solution, although perhaps objectionable from an appearance or a lawn-mowing standpoint.

Plant Selection Program

Commenting on the subject of dry landscape planting, Mr. Everett referred to the 10 to 30-inch annual

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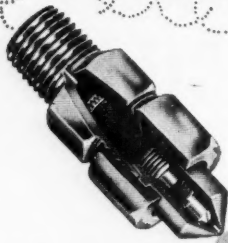
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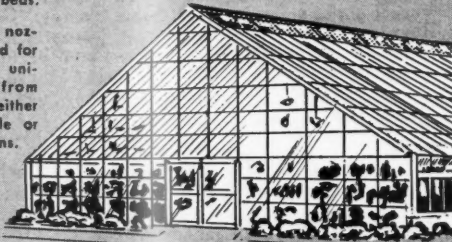
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rainfall west of the Sierras. While plants can be conditioned to a dry landscape, it is a good idea to use plants that have been there all the time and are already conditioned to the climate. However, dry landscape plants do not necessarily have to be native to this state. In fact, plants from similar climatic areas, such as Australia, Chile and certain Mediterranean regions, do well in this area. Mr. Everett urged the use of drought-resistant plants here, noting that California soil seems to be loaded with a fungus which thrives in moist conditions.

Mr. Cummings emphasized that "resistance" is the proper term to use when discussing animal pests; we will not "... get rid of them." These are birds and mammals, which are much smarter than insects, and, as it has been shown, our controls for the latter are only temporary. It is not known why some plants are attractive to animals while some are not, but the fact that this is so is most helpful. Of two equally desirable ornamentals, one should plant the more resistant one. Usually the plants which are considered toxic are the most resistant ones. Generally, animal pests present more of a problem in irrigated areas, because of the more lush and plentiful plant supply. However, there are a few dry landscape animals, just as there are plants. Just as one usually must pay a penalty for having trees planted in lawns, when one wants or needs some plants for pleasure or for business, one must take his chances with pests.

Pest Repellents

Mr. Cummings believes a trap is the best gopher control for a small yard. Castor beans have worked for some in repelling gophers. However, taste repellents are not so effective for gophers as for other rodents, since their incisors are outside their lips. Currently, repellents are being incorporated in buried plastic pipe used for irrigation. Here again, this is not so effective for gophers as for other rodents. A sharp path of cinders may prove more effective. Methyl bromide gas is effective, but it needs to be applied with pressure, since the gopher will go to the far end of his tunnel and throw up an earth barrier. Actually, auto exhaust fumes are as adequate as is any other gas that can be employed against gophers.

Area repellents have not proved satisfactory over the long run. Repellents must be on the plant and, if possible, on the part the animal will eat. Many people have reported

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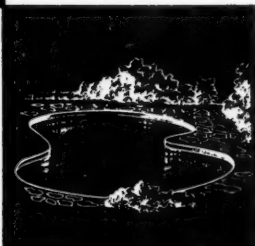


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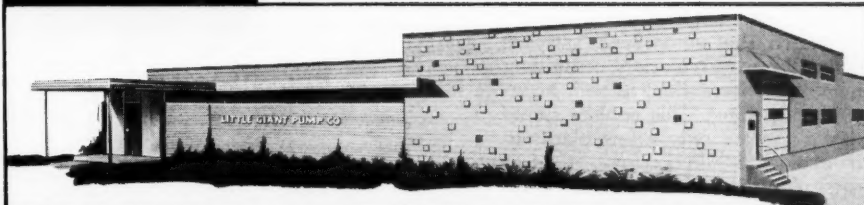
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the efficaciousness of lion manure in repelling deer. However, there are naturally some problems in obtaining a supply of such material. "Improved Zip" seems the best repellent for rabbits, although it is not so effectual against deer.

Birds offer a number of problems, such as spreading mistletoe infestation; robins rob the pyracantha of its berries. Unfortunately, there are no good answers for such problems. Among the best seem to be mechanical frightening devices and netting. Since robins like to take the soft, ripened berries in the early spring, it is suggested that varieties that ripen and soften late will not be bothered so much. Mr. Cummings emphasized the difficult aspect of this subject by pointing out that results in a given case will often depend upon other food supplies, migratory habits, weather conditions and fire conditions.

Toxic Plants

The discussion on resistant and toxic plants brought up the question of these plants' presenting a hazard to children. Mr. Kimball announced that the university is publishing a booklet containing a list of the so-called poisonous plants. He anticipated the question about the wisdom of publishing such a list, with the

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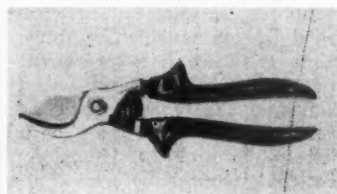
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possible scare implications. However, he stated that some such lists are currently in circulation containing incorrect information, as well as incorrect spelling. This booklet shows that there are only a few plants to be avoided, while the toxic effect of most plants is negligible, even for the so-called poisonous plants.

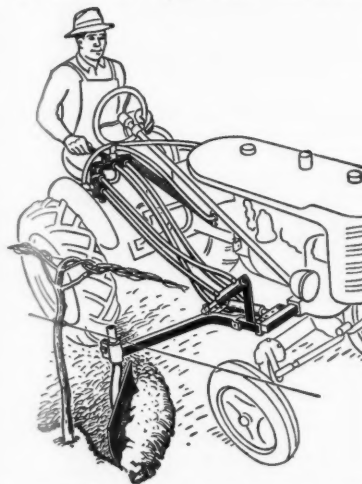
However, it must be pointed out that individuals vary greatly in their reaction to plants. Many children get an allergic reaction, similar to that from poison oak, from Algerian ivy. Mr. Kimball endorsed the action of several California communities in enacting ordinances against the castor bean, since it has fatally poisoned several persons. However, most plants that might have a toxic effect have a bitter odor or taste. A child would usually be repelled before he could swallow enough to hurt him.

Saline Tolerance

Milton Fireman, in discussing saline tolerance, noted that, while all plants require some salt, any will be killed by too much. The range of saline tolerance is not so great as one thinks, and therefore, selecting plants on the basis of their saline resistance is usually not a good solution to the problem. He cited the fact that plants have been changed for those with more saline tolerance on a golf course, but without appreciably better results. Salinity is a potential problem wherever irrigation is practiced. All soil, water and fertilizer contain salts. He noted that most housewives kill their plants through overfertilization or continued watering without leeching, the latter problem being com-

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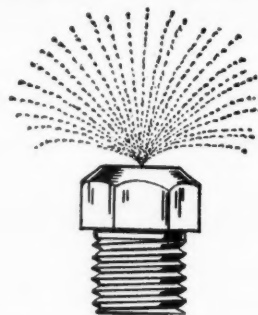
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Chicago 4

pounded by the use of softened water. Excess salts must be moved from the root system.

Roy Branson commented that he is repeatedly being asked if there is anything which can be added to saline soil to remove this condition. The answer is emphatically "no," except for water—the only way and the cheapest way. Growers are becoming more aware of the problem of salinity; however, it is one which has no sudden symptoms and slowly grows. While growers will do something about a slope, clay, animals, etc., the problem of salinity is usually ignored, since it is most often a sign of poor management practices. One feels it is a problem that is bothering his neighbor, but not him.

If there is any question about a salinity problem, one should test the soil. It is cheap insurance. While it is feasible to get equipment and test the soil oneself, it is usually economical only for the large grower. While it is important to get the figures, what one does with them is much more important. Perhaps the person who makes the test will also be able to interpret the figures and give some recommendations.

Soils for Canned Plants

The panel on "Variable Canning Soils—Fertilizing and Watering" at the southern institute was moderated by C. L. Hemstreet. The panel was made up of Robert Weidner, Buena Park Greenhouses, Inc., La Habra; James Gibbs, Winsel-Gibbs Seed & Nursery Co., Los Angeles; O. R. Lunt, department of irrigation and soil science, U. C. L. A.; Richard G. Maire, farm adviser, Los Angeles county, and Philip A. Chandler, who had spoken on the problems of variable nursery canning soils during the morning session.

The northern institute panel on this subject was moderated by Thomas G. Byrne, farm adviser from Alameda county. Panel members were John E. Edwards, Edwards Nursery, Palo Alto; William E. Schmidt, Schmidt Nursery, Palo Alto; Roy L. Branson, agricultural extension service, Riverside, and Mr. Chandler.

Mr. Chandler commented optimistically, if facetiously, that in the future perhaps all the problems discussed by the preceding panelists and speakers would be eliminated by use of the U. C. system or some similar systems. He likened the use of the system to building a house. One starts with the foundation and builds with known mate-

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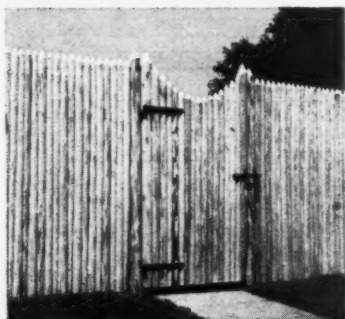
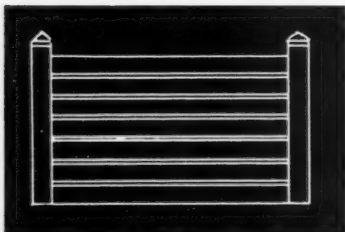
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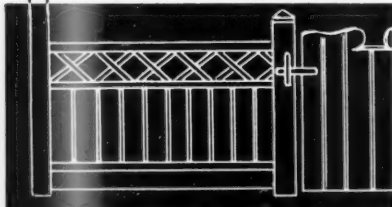
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rials. Just as the well-planned and well-constructed house has advantages, so does the U. C. system.

Most of these advantages were covered in Mr. Chandler's speech, but he noted that after a heavy rain one can go out the next day and work the soil mixture discussed. This would not be the case with clay or adobe soil. Furthermore, since it seems that ladies do most of the gardening work, he suggested that they be impressed with the light weight of the soil mixture.

Modifications of Mix

Mr. Chandler feels that there are many organic waste materials throughout the world which could be used in the U. C. system. Among those which have been substituted for peat moss are redwood sawdust, rice hulls, fir bark and flax chaff. While many of these materials are less expensive than peat, one should proceed with their use slowly, because of the possibility of their being toxic. Another consideration is how rapidly they will break down and become colloidal. When peat is used, Mr. Chandler cautioned, it should be a sphagnum or hypnum type, both of which are free from salts.

Mr. Chandler feels that most of the complaints about the U. C. mix are due to halfhearted use of the system. Retail nurserymen often do not fertilize. He suggested that they could add hoof and horn before passing the plant on to the consumer. Mr. Schmidt and Mr. Edwards felt that it was rare for a plant not to survive being passed from a light canned soil to the heavy adobe soil of a customer. Mr. Schmidt stressed that the nurseryman should impress on the customer the importance of making a proper hole, watering more and feeding more. At his nursery, the salesman points to the main stem as the exact spot which should be watered. Naturally, this takes time to explain, and the price should reflect this. Knowledge and service are the most important things the nurseryman has to sell, and he should take advantage of this. If he does not explain to the customer and the latter, in turn, has trouble, he will likely blame an inferior plant. Furthermore, Mr. Edwards feels that the well-fed plants are much harder in resisting frost damage.

Mr. Weidner advocated a mixture of perlite and peat as a good propagating medium. It is good for growing if one can keep it from drying out. The same mixture is recommended for indoor planters. When

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be quite rapid in house planters, Mr. the peat and perlite mixture should afford better drainage to combat the build-up of salinity, which can be quite rapid in house planters Mr. Weidner said.

Insect Control

In discussing the problems of insect control, Dr. John E. Swift, extension entomologist, Berkeley, stressed that the primary consideration must be safety in selection for use in the nursery and by homeowners. Some of the more effective insecticides are omitted from such discussions because they require such steps as obtaining permits, the use of protective clothing or the closing off of property for a time.

Both the oral and dermal toxicity must be taken into consideration. Most of the deaths occur from dermal toxicity, through exposure to the hands, face, neck, etc. The few cases of deaths due to oral toxicity are to children under 5 years old. Therefore, often those insecticides which will be recommended are those high in oral toxicity, but low dermally. For instance, Trithion was the most toxic material discussed, being eight times more toxic orally than DDT. However, it is only one fifth as toxic as DDT dermally. Cus-

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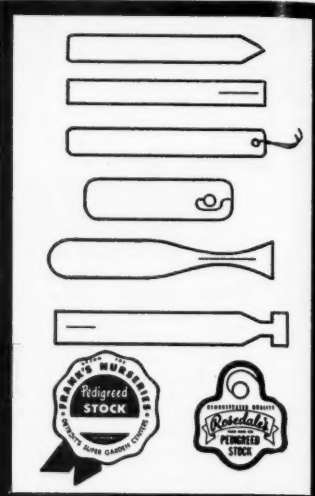
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tomers are going to ask about what to use for weed control in foundation plantings, other than a hoe. A directed oil spray is recommended, since chemicals are dangerous for the home use, due to the range of plant material being treated.

Andrew Deal, extension entomologist, Riverside, covering the same topic at the southern institute, noted that the first part of the usual insect control program is a spring cleanup to take care of the insects brought on by the warm weather. This takes the form of a ground treatment, for which dieldrin spray or granules or chlordane spray are satisfactory. The treatment usually must be repeated in a month.

The coming of scale crawlers, aphids, spider mites, flies and other pests in early May calls for a foliage treatment. For this, malathion or malathion with light medium oil was suggested. When one uses the latter, he must watch the tolerances carefully. The application must give thorough coverage of all areas, including the underside of leaves. There should be a follow-up treatment with the same materials in June or July.

During the summer and fall, plants should be inspected often for aphids, mites, mealy bugs, beetles, etc., and spot-treated as necessary.

Mr. Deal outlined the features of several new insecticides as follows:

Diazinon—phosphate, of high oral and low dermal toxicity; relatively safe general purpose insecticide, often substituted for malathion; used for aphids, spider mites, mealy bugs, scale and leaf miner.

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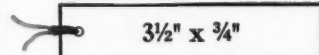
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Thiodan — chlorinated hydrocarbon, of high toxicity; used for aphids (especially green peach), cyclamen mite, beetles and caterpillars.

Ethion — phosphate, of high toxicity; used for armored scales, spider mites, mealy bugs and beetles.

Trithion—phosphate, of high toxicity (internal, not dermal); used for spider mites, aphids (except green peach), mealy bugs and scale insects.

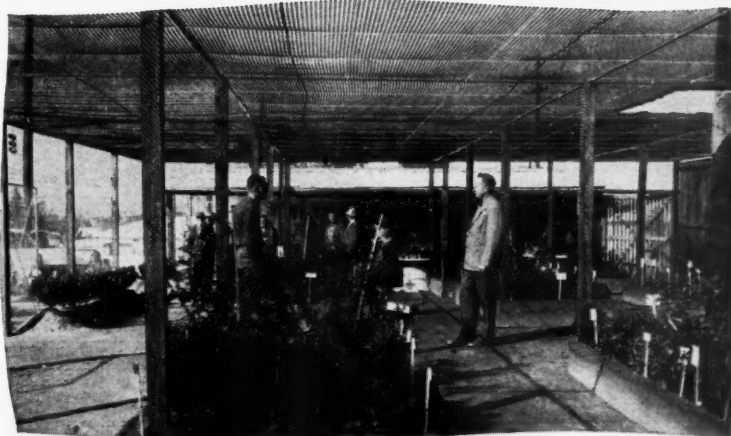
In conclusion, Mr. Deal cited the following as essential factors in a good pest control program: (1) Pest identification, (2) proper choice of insecticide, (3) proper timing of treatment, (4) thorough coverage and (5) strict compliance with printed directions. Detailing the last point, he said that nurserymen must read the label carefully, handle the insecticide safely, use no mixture of two or more insecticides, test the insecticide on a few plants before using it on the entire stock and label and store insecticides safely.

Weeds and Diseases

The southern institute panel on "Insects, Weeds and Diseases" had as its moderator Seward Besemer, farm adviser from San Diego county. The panel members included Andrew Deal; Arthur H. McCain, agricultural extension service, Berkeley; Kenneth Britt, department of floriculture and ornamental horticulture, U. C. L. A., and Jack L. Bivins, farm adviser from Santa Barbara county.

The northern panel, moderated by Peter J. Lert, farm adviser from Santa Clara county, included Dr. C. S. Davis, extension entomologist from Berkeley; Dr. Robert B. Raabe, department of plant pathology, Berkeley; W. B. McHenry, extension entomologist, Davis, and Mr. Britt.

These panels were called upon to answer an extremely wide variety of specific questions on problems encountered by those in attendance. The trend toward more emphasis on pre-emergence herbicides was reflected in the discussion throughout the panels. Neburon and simazin have proved quite safe on wide varieties of container-grown stock



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and have been effective in spraying on ground covers to kill emerging weeds, although they will not be effective against established weeds.

The question of a control for mealy bugs came up at every session, but there is as yet no effective control. Mr. Lert pointed out that they can be killed, but the problem is to get the chemicals down to them at the roots.

Another lively topic of discussion was control of Bermuda grass. It was suggested that a soil sterilant be used before putting on the new turf. It was felt that Vapam was probably the most effective of these, although it might miss some tips. The consensus was that while Bermuda grass killers might work when grass is dormant, it is not a good idea to use them at this time.

For control of crab grass in lawns, Pax was recommended, while Neburon was declared a good control for crab grass in ice plant and other ground covers.

To select the best insecticide, one must know both the pest and the insecticide. It is recommended to choose the best insecticide for the pest and apply it at the time and under the particular conditions that will make it most effective. For example, a moderate 80 to 85 degrees seems to be the optimum temperature, since at other extremes the plant may be burned or the insects may not be moving.

McKEE FIRE LOSS

McKee's Nursery, Covington, La., suffered an estimated fire loss of more than \$25,000, of which only \$3,000 was covered by insurance when the supply building was totally destroyed Sunday evening, January 24.

The building contained an estimated \$10,000 worth of general nursery supplies, according to Floyd McKee, owner. Sprinkler heads, water pumps, electric motors, large quantities of chemicals, shovels, nails, sisal and jute twine, burlap, ferti-

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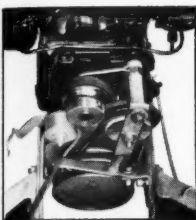
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lizers and all types of hand tools were lost.

WOLFE NURSERY EXPANDS

The Wolfe Nursery Garden Center recently opened at Lubbock, Tex., adds another retail unit to the firm's group of nursery outlets in west Texas. The new store, which covers 27,000 square feet of space and has a 350-foot frontage, carries plants, fertilizers, insecticides, tools and allied gardening lines. During the 10-day formal opening starting January 22, adult visitors were given an ivy plant, and children received candy, according to Bill Biggs, vice-president and director of the Wolfe stores.

Manager of the garden store at Lubbock is Don Wimberly, who was previously associated with the Wolfe Nursery at Stephenville, the principal growing center for the firm's nurseries at San Angelo, Abilene and Lubbock, as well as at Stephenville. The nursery, founded in 1919 at Stephenville by the late Ross Wolfe, whose widow is now president of the company, grows trees and other nursery stock on 1,030 acres of irrigated land. Dan Wolfe, Stephenville, is general manager of the firm, and Hugh Wolfe, another

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6 to 9 ins., S.	\$ 7.50	\$ 65.00
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12 to 24 ins., R. P. . . .	17.50	150.00
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1-yr., S.	6.50	50.00
2-yr., R. P.	10.00	85.00
European Mountain Ash		
2 to 3 ft.	17.50	150.00
3 to 4 ft.	25.00	225.00
4 to 5 ft.	42.50	375.00
Syringa villosa		
2-yr., 12 to 18 ins. . . .	10.00	85.00
2-yr., 18 to 24 ins. . . .	15.00	125.00
Syringa vulgaris		
6 to 12 ins.	7.50	65.00
12 to 18 ins.	10.00	85.00
Syringa Charles Joly		
Field-grown grafts. . . .	35.00	300.00
Red Barberry		
6 to 9 ins.	5.00	45.00
9 to 12 ins.	7.50	65.00
12 to 18 ins.	12.50	100.00
Viburnum dentatum		
12 to 18 ins.	12.50	100.00
18 to 24 ins.	15.00	125.00
Viburnum lantana		
6 to 12 ins.	10.00	85.00
12 to 18 ins.	15.00	125.00
18 to 24 ins.	17.50	150.00
Viburnum sieboldi		
12 to 18 ins.	17.50	150.00
6 to 12 ins.	10.00	85.00
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Taxus capitata		
Selected, 2-yr.	10.00	85.00

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son, is secretary-treasurer of the organization.

TENNESSEE CONVENTION

[Concluded from page 17]

Arts Center, Nashville, addressed the group and outlined plans for this comparatively new project, which is receiving the full cooperation of Tennessee nurserymen.

After officers were elected, as reported earlier, it was announced that the time and place of the next annual convention will be determined later by the executive committee. The necrology committee report was given, and the members stood for a moment in silence for Marshall Couch, Couch Bros. Nursery Co., McMinnville, and Thomas McIntyre, McIntyre Nursery, Nashville, who died since the last annual meeting.

Reports were also heard from the auditing, membership and legislative committees before the meeting was adjourned.

OREGON SHORT COURSE

[Concluded from page 12]

ing for horticultural use are propagated in small quantities for distribution to Washington nurserymen and to other arboretums requesting them. In 1958, 500 plants of 65 different species were sent to other similar institutions.

The second general session of the Oregon short course, as well as the remaining sessions for nurserymen, landscape gardeners and holly growers, will be reported in a later issue of the American Nurseryman.

Included in this report will be summaries of talks presented on chemical control of plant growth, control of symphyllids and turf diseases, new and unusual plant materials, the coming changes in nursery merchandising, viruses, automation in the nursery, landscape design, holly disease control and nutrient deficiencies in holly.

THE new Bloom-Rite bulb package, used by the Nurserymen's Exchange, San Francisco, Calif., recently won a silver award in the Variety Store Merchandiser annual packaging contest. Major chain stores supplied the committee of judges.

OPENED recently in the Carlmont shopping center, San Carlos, Calif., was the Carlmont Nursery, owned by John Althuizen, who also operates the Holland Landscaping Service, San Carlos. The new nursery will be managed by Robert Green.

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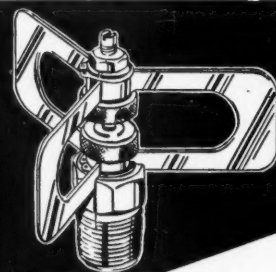
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